**Naval Research Laboratory**

**Washington, DC 20375-5320**

**NRL/FR/6364--11-10,211**

# Prioritization and Sensitivity Analysis of the Inhalation/Ocular Hazard of Industrial Chemicals

Thomas E. Sutto

*Materials and Sensors Branch*
*Materials Science and Technology Division*

October 28, 2011

Approved for public release; distribution is unlimited.

# REPORT DOCUMENTATION PAGE

*Form Approved*
*OMB No. 0704-0188*

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **PLEASE DO NOT RETURN YOUR FORM TO THE ABOVE ADDRESS.**

**1. REPORT DATE** *(DD-MM-YYYY)*
28-10-2011

**2. REPORT TYPE**
Formal Report

**3. DATES COVERED** *(From - To)*

**4. TITLE AND SUBTITLE**

Prioritization and Sensitivity Analysis of the Inhalation/Ocular Hazard of Industrial Chemicals

**5a. CONTRACT NUMBER**

**5b. GRANT NUMBER**

**5c. PROGRAM ELEMENT NUMBER**

**6. AUTHOR(S)**

Thomas E. Sutto

**5d. PROJECT NUMBER**

**5e. TASK NUMBER**

**5f. WORK UNIT NUMBER**

**7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)**

Naval Research Laboratory
Materials Science and Technology Divison, Code 6364
4555 Overlook Avenue, SW
Washington, DC 20375-5320

**8. PERFORMING ORGANIZATION REPORT NUMBER**

NRL/FR/6364--11-10,211

**9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)**

Joint Project Manager for Protection
Joint Project Manager – Protection
50 Tech Parkway, Suite 301
Stafford, VA 22556

**10. SPONSOR / MONITOR'S ACRONYM(S)**

JPM-P

**11. SPONSOR / MONITOR'S REPORT NUMBER(S)**

**12. DISTRIBUTION / AVAILABILITY STATEMENT**

Approved for public release; distribution is unlimited.

**13. SUPPLEMENTARY NOTES**

**14. ABSTRACT**

This report has been prepared for the Joint Project Manager for Protection (JPM-P) to document the prioritization and sensitivity analysis of the potential inhalation and ocular hazard of industrial chemicals.

**15. SUBJECT TERMS**

Toxic industrial chemicals
Prioritization
Sensitivity analysis

| 16. SECURITY CLASSIFICATION OF: | | | 17. LIMITATION OF ABSTRACT | 18. NUMBER OF PAGES | 19a. NAME OF RESPONSIBLE PERSON |
|---|---|---|---|---|---|
| | | | | | Thomas E. Sutto |
| a. REPORT | b. ABSTRACT | c. THIS PAGE | | | 19b. TELEPHONE NUMBER *(include area code)* |
| Unclassified | Unclassified | Unclassified | UU | 147 | 202-404-2097 |

**Standard Form 298 (Rev. 8-98)**
**Prescribed by ANSI Std. Z39.18**

This page intentionally left blank

## CONTENTS

ACRONYMS AND ABBREVIATIONS ..... v

EXECUTIVE SUMMARY ..... E-1

1 INTRODUCTION ..... 1

2 SCIENTIFIC ANALYSIS OF THE INTERNATIONAL TASK FORCE–40 REPORT ..... 2
- 2.1 Overview of ITF-40 ..... 2
- 2.2 Analysis of the ITF-40 Database ..... 3
- 2.3 Analysis of the ITF-40 Algorithm ..... 5
- 2.4 Conclusions Regarding ITF-40 ..... 6

3 THE NRL ICA PRIORITIZATION PROCESS ..... 7
- 3.1 Development of the Database ..... 8
  - 3.1.1 Toxic (Operational) Hazard Score ..... 9
  - 3.1.2 Relative Probability Score ..... 11
- 3.2 Generation of the Critical Inhalation/Ocular Toxic Hazard List ..... 12
- 3.3 Class-based Analysis of the Critical Inhalation/Ocular Toxic Hazard List ..... 14
  - 3.3.1 NRL Class-based Approach ..... 14
- 3.4 Downselection to the High Priority Inhalation/Ocular Toxic Hazard List ..... 15

4 SENSITIVITY ANALYSIS ..... 18
- 4.1 Vapor Pressure and Vapor Density Sensitivity Analysis ..... 21

5 CONCLUSIONS ..... 23

APPENDIX — Inhalation/Ocular Database and Prioritization Results ..... on CD

## FIGURES

Fig. 1 — Flow chart of the NRL ICA prioritization process ..... 8

## TABLES

Table 1 — Inaccuracies and Missing Data in the ITF-40 Database ..... 4
Table 2 — ITF-40 Algorithm: Toxicity Bias ..... 5
Table 3 — ITF-40 Algorithm: Flammability ..... 6
Table 4 — ITF-40 Algorithm: Explosive Hazards ..... 6
Table 5 — Inhalation Toxicity Scoring ..... 9
Table 6 — Flammability Scoring ..... 10
Table 7 — Reactivity Scoring ..... 10
Table 8 — Physical State Scoring ..... 11
Table 9 — Global Production Scoring ..... 11
Table 10 — Global Distribution Scoring ..... 12
Table 11 — Critical Inhalation/Ocular Hazard Chemical List ..... 13
Table 12 — High Priority Inhalation/Ocular Hazard List ..... 17
Table 13 — Critical Chemical List Without Stability Scoring ..... 19
Table 14 — Critical Chemical List When Toxicity Score is Doubled ..... 20
Table 15 — Toxicity/Physical State Scoring Criteria ..... 21
Table 16 — Critical Chemical List Based on Vapor Pressure and Vapor Density Considerations ..... 22
Table 17 — High Priority Inhalation/Ocular Hazard List Based on Vapor Pressure and Vapor Density Considerations ..... 23

## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AEGL | Acute Exposure Guideline Levels |
| C | Degrees Centigrade |
| CAMEO | Computer-Aided Management of Emergency Operations (EPA and NOAA computer program available online) |
| CANUKUS | Canadian, United Kingdom, and United States |
| CAS | Chemical Abstracts Service |
| CBRN | Chemical, Biological, Radiological, and Nuclear |
| CFR | Code of Federal Regulations |
| CHPPM | (U.S. Army) Center for Health Promotion and Preventative Medicine |
| DHS | Department of Homeland Security |
| DWCP | Directory of World Chemical Producers |
| EPA | Environmental Protection Agency |
| F | Degrees Fahrenheit |
| ICA | Industrial Chemical Assessment |
| ITF | International Task Force |
| JPEO-CBD | Joint Program Executive Office for Chemical and Biological Defense Programs |
| JPM-IP | Joint Project Manager for Individual Protection |
| JPM-P | Joint Project Manager for Protection (New identity of JPM-IP) |
| JSGPM | Joint Service General Purpose Mask |
| L | Liters |
| mph | Miles per hour |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| NOAA | National Oceanic and Atmospheric Administration |
| NRL | Naval Research Laboratory |
| OMPA | Octamethyl diphosphoramide |
| ppm | Parts per million |
| R&D | Research and Development |
| T&E | Test and Evaluation |
| TIC | Toxic Industrial Chemical |

# EXECUTIVE SUMMARY

This report has been prepared for the Joint Project Manager for Protection (JPM-P) of the Joint Program Executive Office for Chemical and Biological Defense Programs (JPEO-CBD) to document the risk management strategy adopted to prioritize and assess the potential inhalation/ocular hazard of industrial chemicals to the warfighter.

The Naval Research Laboratory (NRL) developed this prioritization using the scoring algorithm they derived and tested and the Industrial Chemical Assessment (ICA) database they created in 2008 (published in 2010). For the present study, NRL expanded the primary list of 430 chemicals in the NRL ICA database to include those in the Department of Homeland Security's "Chemicals of Interest" list (6 CFR 27, Appendix to Part 27). This added 221 more chemicals to the original list of 430. However, inhalation toxicity data could be found for only an additional 140 chemicals, bringing the total number of chemicals in the Inhalation/Ocular Toxicity portion of the updated database to 570 chemicals. The database containing the chemical and scoring data used to assess the inhalation/ocular hazard is detailed in this report's Appendix.

Many of the chemicals newly added to the database are fuels and explosives, which score low due to their reactivity, or specialty chemicals, which score low due to their low relative probability score. Compared to the previous (2010) analysis, the Critical Hazard Chemical List grew from 36 chemicals to 49 chemicals. However, after further downselection through class-based and reactivity analyses, the final High Priority Hazard List of 14 chemicals did not change from that in the previous analysis.

Table E1 shows the 14 high priority inhalation/ocular hazard chemicals in alphabetical order. It is important to note that this is not a threat list. These chemicals have been selected, through the prioritization process, as representative chemicals for research, development, test, and evaluation since it not possible to test against all of the thousands of potentially hazardous industrial chemicals. Crucial to this prioritization is NRL's development and implementation of a class-based analysis to ensure that the threat of industrial chemicals is comprehensively assessed. Follow-on test and evaluation will be used to evaluate this list to confirm this class-based analysis and, if possible, further downselect these chemicals.

Not shown in this table are hydrogen cyanide and cyanogen chloride, which failed to score high enough to rank as critical chemicals. Hydrogen cyanide, a highly flammable and reactive liquid in its pure form, scored very low in the overall assessment. Cyanogen chloride was not selected because there are no known industrial uses of this chemical. It is recommended that these two chemicals be assessed as Chemical Warfare Agents if warranted.

This study focuses on the inhalation and ocular military hazards of industrial chemicals. This effort also lays out a common approach for assessment of percutaneous, oral, explosive, and radiological military hazards, which will be documented in follow-on reports.

Table E1 — High Priority Inhalation/Ocular Hazard Chemicals

| # | Chemical | CAS Number |
|---|---|---|
| 1 | Ammonia | 7664-41-7 |
| 2 | Chlorine | 7782-50-5 |
| 3 | Formaldehyde E3 | 50-00-0 |
| 4 | Hydrogen bromide | 10035-10-6 |
| 5 | Hydrogen chloride | 7647-01-0 |
| 6 | Hydrogen fluoride | 7664-39-3 |
| 7 | Hydrogen sulfide | 7783-06-4 |
| 8 | Mercury | 7439-97-6 |
| 9 | Methyl bromide | 74-83-9 |
| 10 | Nitric acid/Nitrogen Dioxide | 7697-37-2 |
| 11 | OMPA | 152-16-9 |
| 12 | Phosgene | 75-44-5 |
| 13 | Sulfur dioxide | 7446-09-5 |
| 14 | Sulfuric acid | 7664-93-9 |

| Oxidizer | Reducer | Volatile Organic | Pesticide/ Herbicide/Fungicide | Self-Polymerizer |
|---|---|---|---|---|

# PRIORITIZATION AND SENSITIVITY ANALYSIS OF THE INHALATION/OCULAR HAZARD OF INDUSTRIAL CHEMICALS

## 1 INTRODUCTION

This report has been prepared for the Joint Project Manager for Protection (JPM-P)[1] of the Joint Program Executive Office for Chemical and Biological Defense Programs (JPEO-CBD) to document the risk management strategy adopted to prioritize and assess the potential inhalation and ocular hazard of industrial chemicals to the warfighter.

In 2008, the Naval Research Laboratory (NRL) was contracted by JPM-IP to analyze existing toxic industrial chemical (TIC) assessments, such as the International Task Force (ITF)-40 report,[2] and if necessary, co-develop an alternative approach to provide a comprehensive list of TICs that takes into account flammability, reactivity, and the different classes of chemicals in the world. The purpose was to develop a scientifically based prioritization of chemicals that selects a representative list of industrial chemicals for research and development (R&D) and test and evaluation (T&E) for chemical/biological defense systems.

NRL, in coordination with JPM-IP, compiled a database of 430 principal industrial chemicals and developed a scoring algorithm that allows for a documented, repeatable, systematic prioritization of these chemicals. This database and prioritization are called the NRL Industrial Chemical Assessment (NRL ICA).[3] As part of this prioritization, a class-based analysis was used as a key risk mitigation strategy. The class-based analysis, defined by strict chemical terms relating to the formation or breaking of a chemical bond, was used to group like chemicals into representative classes, mitigating the risk of encountering chemicals in the operational environment that have not been assessed.

For the present study, the primary NRL ICA list of 430 chemicals was expanded to include those in the Department of Homeland Security's "Chemicals of Interest" list.[4] The expanded list had 221 chemicals more than the original 430. However, inhalation toxicity data could be found for only an additional 140 chemicals, bringing the total number of chemicals in the Inhalation/Ocular Toxicity portion of the updated database to 570 chemicals. This report documents the prioritization process using the updated list of chemicals. The chemical and scoring data used to assess the inhalation/ocular hazard are detailed in the Appendix.

---

[1] Formerly known as the Joint Project Manager for Individual Protection, JPM-IP.

[2] "Industrial Chemical Prioritization and Determination of Critical Hazards of Concern, Technical Annex and Supporting Documents for International Task Force (ITF)-40, Industrial Chemical Hazards: Medical and Operational Concerns," U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) Report 47-EM-6154-03, November 2003, Aberdeen Proving Ground, MD (FOUO).

[3] T.E. Sutto, "Toxic Industrial Chemicals: Global Assessment and Scientific Analysis," NRL/FR/6364--09-10,182, Naval Research Laboratory, Washington, DC, Feb. 2010.

[4] 6 CFR Part 27, Chemical Facility Antiterrorism Standards, Appendix A to Part 27, DHS Chemicals of Interest. Published in the Federal Register Vol. 72, No. 223, Nov. 20, 2007, Part II, Department of Homeland Security.

Manuscript approved September 27, 2011.

Many of the newly added chemicals are fuels and explosives, which score low due to their reactivity, or specialty chemicals, which score low due to their low relative probability score. With the additional 140 chemicals, the Critical Hazard Chemical List (discussed in Section 3.2) has grown from 36 chemicals to 49 chemicals. However, after class-based analysis and reactivity assessment, the final High Priority List (discussed in Section 3.4) does not change from that derived in the 2010 analysis.

This study focuses on the inhalation and ocular military hazard of industrial chemicals. This effort also lays out a common approach for assessing hazards such as percutaneous, oral, explosive, and radiological military hazards, which will be documented in follow-on reports.

## 2 SCIENTIFIC ANALYSIS OF THE INTERNATIONAL TASK FORCE–40 REPORT

Previous efforts to assess the threat of industrial chemicals, such as the ITF-40 and its predecessor, the ITF-25, did not consider fully enough the reactive nature of chemicals and how this behavior might affect the actual hazard a particular chemical can present. This failure to consider how flammability and reactivity with moisture and air can alter a potential chemical threat led NRL/JMP-IP to develop their new assessment. This section considers the ITF-40 assessment in detail.

### 2.1 Overview of ITF-40

International Task Force–40 was one of several International Task Force groups established under the provisions of the 1994 Canadian, United Kingdom, and United States (CANUKUS) Memorandum of Understanding on Chemical and Biological Defense. The objective of the ITF-40 group was to develop appropriate tools for military commanders to identify, assess, and control risks from exposures caused by the release of industrial chemicals in a military situation, and to review, update, and enhance the methodology used by a previous group to prepare a prioritized list of industrial chemicals. The report published by the task force in 2003 is referred to here as the ITF-40 report, or simply ITF-40.

The ITF-40 database lists 1756 chemicals and uses National Fire Protection Association (NFPA) ratings for health (H), flammability (F), and instability (I) (formerly called reactivity, R)[5] as factors for assessing the degree of hazard a chemical poses. However, the chemicals are not adequately assessed, both because of gaps in information in the database and because the ranking algorithm used does not fully take into account what is known about the behavior of a chemical in the operational environment. Because flammability and reactivity information is missing for many entries, or is present but not evaluated in an operational context, ITF-40 becomes primarily a toxicological ranking of chemicals. The quotations below from the ITF-40 report highlight these points.

> Flammability and Instability (F and I) scores are used directly from US NFPA/USFA [NFPA-704, 2001; NFPA-325, 2001; USFA, 2001] which provides a 0-4 ranking scale (4 = greatest hazard). Where 'F' ranks were not available, information from published data was evaluated using the US NFPA criteria for ranking the parameter of flammability. (p. II-10)
>
> Because the criteria used by the US NFPA for instability (formerly reactivity) were more subjective, when no ranking for instability had been allocated, this parameter was not included. (p. II-11)

[5] NFPA 704 now uses the term Instability; older versions called this value Reactivity (NFPA 704 = Standard System for the Identification of the Hazards of Materials for Emergency Response).

> Many thousands of chemicals cannot be adequately assessed because there is not adequate data available – this includes (acute) toxicity data, but the data gaps appear to be even more significant regarding the physical and chemical properties. (p. ES-v)

The ITF-40 report did not make use of the large amount of data regarding flammability and reactivity that is readily available in 150+ years of published scientific literature. The following sections look more closely at the ITF-40 database and algorithm.

### 2.2 Analysis of the ITF-40 Database

The ITF-40 data set contains numerous omissions and disagreements with current NFPA ratings for many of the higher-ranking chemicals. Table 1 shows some of these discrepancies. The chemicals listed in the table represent the Threshold and Objective chemicals for one of the more recent Joint Service General Purpose Mask (JSGPM) filter systems. Columns T, U, and V are values compiled from Appendix A of the ITF-40 report. Columns X, Y, and Z show the corrected NFPA values from CAMEO version 1.2.2, the U.S. Environmental Protection Agency (EPA)/National Oceanic and Atmospheric Administration (NOAA) Computer-Aided Management of Emergency Operations program. The values in red indicate corrections or missing values as compared to the ITF-40 database. A simple tally of NFPA differences and omissions reveals that the ITF-40 database is only 42% accurate for these high-ranking chemicals: 54 of 93 entries are different or missing. Only 15 of the 31 chemicals have all three NFPA values listed. Although some change in NFPA values is to be expected, this high number of errors and omissions in the ITF-40 report provided strong impetus to compile a more accurate and complete database.

These errors result in the omission or erroneous evaluation of several hazardous chemicals in the ITF-40 assessment. For instance, hydrogen sulfide was not originally listed as a high priority chemical, since the health score in the ITF-40 database is given as 2; however, the correct health score is 4. It was added to the high priority list, but only due to the erroneous assumption that "sulfur fires" generate hydrogen sulfide. (Combustion of sulfur results in the formation of sulfur dioxide, just as combustion of carbon results in the generation of carbon dioxide.[6]) Similarly, the ITF-40 report points out that hydrogen bromide is not selected as a priority inhalation hazard due to its low scores, except that again the health score is incorrectly given as 1, when in fact it is 3. In the case of arsine, the health factor listed is again incorrect (3 instead of 4) and there are no flammability or instability ratings, even though the high flammability and reactivity of arsine have long been known.[7] In another example, the data for diborane in the ITF-40 database is correct, but the high flammability and reactivity scores do not affect its being listed as a high priority inhalation hazard, even though it has long been known to explosively decompose upon exposure to air.[8] The peer-reviewed scientific literature documents decades of research that went into developing and working with industrial chemicals, but this information does not appear to have been fully used in the ITF-40 database.

---

[6] S.A. Carn and A.J. Krueger, "Fire at Iraqi sulfur plant emits SO2 clouds detected by Earth Probe TOMS," *Geophysical Research Letters* 31 (2004) L19105, doi:10.1029/2004GL020719.

[7] A. Hantzsch and H. Hibbert, "Concerning addition products of trialkyl-phosphine, -arsine and -stibene," *Berichte der Deutschen Chemischen Gesellschaft* 40 (1907) 1508-1519.

[8] E.L. Poling and H.P. Simons, "Explosive reaction of diborane in dry and water-saturated air," *Industrial and Engineering Chemistry* 50:11 (1958) 1695-1698.

Table 1 — Inaccuracies and Missing Data in the ITF-40 Database

| | T | U | V | | X | Y | Z |
|---|---|---|---|---|---|---|---|
| **The Threshold and Objective Chemicals of the JSGPM System** | **NFPA VALUES FROM USACHPPM 47-EM-6154-03** | | | **ITF-40 HAZARD SCORE** | **ACTUAL CURRENT NFPA VALUES-CORRECTIONS IN RED** | | |
| **COMPOUND** | **H** | **F** | **I** | | **H** | **F** | **I** |
| Acrolein | 4 | 3 | 3 | **4** | 4 | 3 | 3 |
| Acrylonitrile | 4 | 3 | 2 | **4** | 4 | 3 | 2 |
| Allyl alcohol | 4 | 3 | 1 | **4** | 4 | 3 | 1 |
| Ammonia (anhydrous) | 1 | 1 | 0 | **1** | **3** | 1 | 0 |
| Arsine | 3 | | | **3** | **4** | **4** | **2** |
| Boron trichloride* | 4 | 2 | 1 | **4** | **3** | **0** | **2** |
| Boron trifluoride* | 3 | | | **3** | **4** | **0** | **1** |
| Carbon disuldfide | 2 | 4 | 0 | **4** | **3** | 4 | 0 |
| Chlorine | 2 | | | **2** | **4** | **0** | **0** |
| Diborane | 4 | 4 | 3 | **4** | 4 | 4 | 3 |
| Ethylene oxide | 3 | 4 | 3 | **4** | 3 | 4 | 3 |
| Fluorine | 3 | | | **3** | **4** | **0** | **4** |
| Formaldehyde | 3 | | | **3** | 3 | **4** | **0** |
| Hydrazine, annhydrous | 4 | 4 | 3 | **4** | 4 | 4 | 3 |
| Hydrogen bromide (anhyd.) | 1 | | | **1** | **3** | **0** | **0** |
| Hydrogen chloride (anhyd.) | 4 | | | **4** | **3** | **0** | **1** |
| Hydrogen cyanide (anhyd.) | 4 | 4 | 1 | **4** | 4 | 4 | **2** |
| Hydrogen fluoride (anhyd.) | 4 | | | **4** | 4 | **0** | **1** |
| Hydrogen sulphide | 2 | 4 | 0 | **4** | **4** | 4 | 0 |
| Methyl isocyanate | 4 | 3 | 2 | **4** | 4 | 3 | 2 |
| Methyl mercaptan | 4 | 4 | 1 | **4** | **4** | **4** | **1** |
| Nitric acid | 3 | 0 | | **3** | **4** | 0 | **1** |
| Nitrogen dioxide | 3 | | | **3** | 3 | **0** | **0** |
| Phosgene | 3 | | | **3** | **4** | **0** | **1** |
| Phosphine | 2 | 4 | 2 | **4** | **4** | 4 | 2 |
| Phosphorus trichloride | 4 | 0 | 0 | **4** | 4 | 0 | **2** |
| Sulphur dioxide | 2 | | | **2** | **3** | **0** | **0** |
| Sulphur trioxide* | 4 | | | **4** | **3** | **0** | **2** |
| Sulphuric acid | 4 | | | **4** | **3** | **0** | **2** |
| Toluene diisocyanate | | | | **0** | **3** | **1** | **3** |
| Tungsten hexafluoride* | 2 | | | **2** | **4** | **0** | **1** |

## 2.3 Analysis of the ITF-40 Algorithm

The algorithm used by ITF-40 ranks health, flammability, and instability in the following manner to assess the hazard severity of a chemical:

> The final hazard severity rank given to a chemical represents the highest score it receives amongst the three hazard categories: Health (toxicity) 1-4, Flammability 0-4, or Instability 0-4.

For the purposes of designing and evaluating filter masks or other individual protection equipment, this simple ranking system does not provide enough discrimination between the different types of operational hazards to the warfighter and does not account for the effects of chemical behavior.

This ranking system also results in a bias toward toxicity data. For example, for almost half of the chemicals listed in Table 1 (14 out of 31), only the health value is available — flammability and instability data are missing entirely. For many of the other chemicals listed, only the health factor affects the score, as displayed in the small sample in Table 2. For a high-toxicity chemical, the flammability and instability, whether high or low, do not factor into the score, even though these properties may affect the true operational hazard of a toxic chemical. For a lower-toxicity chemical, a high flammability or instability score gives the chemical a high total score, but this score might not be relevant to the evaluation of filter masks, for example, if the main danger is explosive rather than toxic. A few examples of this insufficient ranking system are provided below.

Table 2 — ITF-40 Algorithm: Toxicity Bias

| **The Threshold and Objective Chemicals of the JSGPM System** | **NFPA VALUES USED FROM CHPPM 47-EM-6154-03** | | | |
|---|---|---|---|---|
| **COMPOUND** | **H** | **F** | **I** | **ITF-40 HAZARD SCORE** |
| Acrolein | 4 | 3 | 3 | **4** |
| Acrylonitrile | 4 | 3 | 2 | **4** |
| Allyl alcohol | 4 | 3 | 1 | **4** |
| Ammonia (anhydrous) | 1 | 1 | 0 | **1** |
| Arsine | 3 | | | **3** |
| Boron trichloride* | 4 | 2 | 1 | **4** |

A chemical that rapidly explodes on contact with oxygen gets a very high ITF-40 score, as it is an explosive hazard to the warfighter, but an equally toxic chemical with lower flammability or instability ratings gets a lower score even though it may pose an even greater hazard via inhalation. For example, carbon tetrachloride and carbon disulfide are both classified as simple, volatile organics, and both have a health factor of 3 (see Table 3 and note again the errors in the ITF-40 database). Carbon disulfide is highly flammable (NFPA: "Ignition temperature dangerously low: 212 °F. Vapors may be ignited by contact with ordinary light bulb."), while carbon tetrachloride is non-flammable. Therefore, carbon disulfide receives a higher hazard ranking ("catastrophic") than carbon tetrachloride ("critical"). However, because carbon tetrachloride is stable and non-flammable, it is more likely to create a

significant inhalation hazard in the operational environment. The ITF-40 algorithm does not take into account this physical behavior in its hazard ranking, so does not select carbon tetrachloride as a priority hazard chemical.

Table 3 — ITF-40 Algorithm: Flammability

| | ITF-40 NFPA Values | | | | | ACTUAL NFPA VALUES-CORRECTIONS IN RED | | |
|---|---|---|---|---|---|---|---|---|
| **COMPOUND** | **H** | **F** | **I** | **ITF-40 HAZARD SCORE** | **HAZARD CATEGORY Formula** | **H** | **F** | **I** |
| Carbon tetrachloride | 3 | | | 3 | Critical | 3 | **0** | **0** |
| Carbon Disulfide | 2 | 4 | 0 | 4 | Catastrophic | **3** | 4 | 0 |

In another example, compounds with the highest ITF-40 hazard category rating of catastrophic include chemicals that are explosive hazards but not toxicological hazards. Two examples are shown in Table 4. Hydrogen is rated as catastrophic due to its highly flammable nature — and indeed this poses a significant threat — but such an assessment is not applicable for CBRN (chemical, biological, radiological, and nuclear) systems designed to provide protection against toxic, not explosive, hazards. The same high hazard assessment would be true for TNT, except that the ITF-40 database is again incorrect. The correct NFPA values, shown in red, indicate that TNT should also be listed as catastrophic by ITF-40; however, due to errors in the database, this chemical is incorrectly assessed as negligible.

Table 4 — ITF-40 Algorithm: Explosive Hazards

| | ITF-40 NFPA Values | | | | | Actual NFPA Values Red= Errors | | | Corrected | |
|---|---|---|---|---|---|---|---|---|---|---|
| COMPOUND | H | F | I | ITF-40 | Hazard Category | H | F | I | ITF-40 HAZARD | Hazard Category |
| TNT | 1 | | | 1 | Negligible | **2** | **4** | **4** | 4 | Catastrophic |
| Hydrogen | 0 | 4 | 0 | 4 | Catastrophic | 0 | 4 | 0 | 4 | Catastrophic |

## 2.4 Conclusions Regarding ITF-40

Analysis of the ITF-40 report led to the following conclusions:

1. The data set is incomplete and therefore cannot be used to adequately analyze the global threat of TICs in the operational environment. Although over 1700 chemicals are listed in the database, complete data (scores for health, flammability, reactivity, physical state, and number of countries producing the chemical) are given for only 420 chemicals.

2. Data regarding health, flammability, and reactivity is incorrect for many of the highest ranked chemicals.

3. The algorithm used to rank each chemical results in a primarily toxicological assessment of TICs, without considering the ability of the chemical to manifest a threat in the operational environment. It does not differentiate between high toxicity, high flammability, and high reactivity, or consider how the combination of chemical properties affects their hazard potential.

4. The lack of a class-based analysis founded on basic chemical properties results in a prioritization that cannot be said to comprehensively address the global threat of industrial chemicals. Because there are thousands of chemicals produced and distributed globally, a class-based assessment is a required part of the prioritization process to ensure that the priority list also represents those thousands of other chemicals.

Based on this analysis, JPM-IP and NRL compiled the new NRL ICA database and devised an alternate scoring algorithm and prioritization system to reassess the threats posed by toxic industrial chemicals.

## 3 THE NRL ICA PRIORITIZATION PROCESS

The prioritization methodology developed in 2008 by NRL and JMP-IP includes criteria to account not only for toxicity but also for the environmental behavior of industrial chemicals. As discussed above, the ITF-40 report does not adequately discriminate between toxic threats and explosive/unstable hazards, so does not adequately describe industrial chemicals for the purposes of chemical/biological defense programs.

The NRL/JPM-IP prioritization approach consists of the following steps:

Step 1: Development of the NRL ICA database
Step 2: Generation of a Critical Inhalation/Ocular Hazard List
Step 3: Class-based analysis of prioritization results
Step 4: Downselection to a High Priority Inhalation/Ocular Hazard List
Step 5: Sensitivity analysis of the prioritization results

These steps are discussed in detail in the sections that follow. Figure 1 illustrates the overall process.

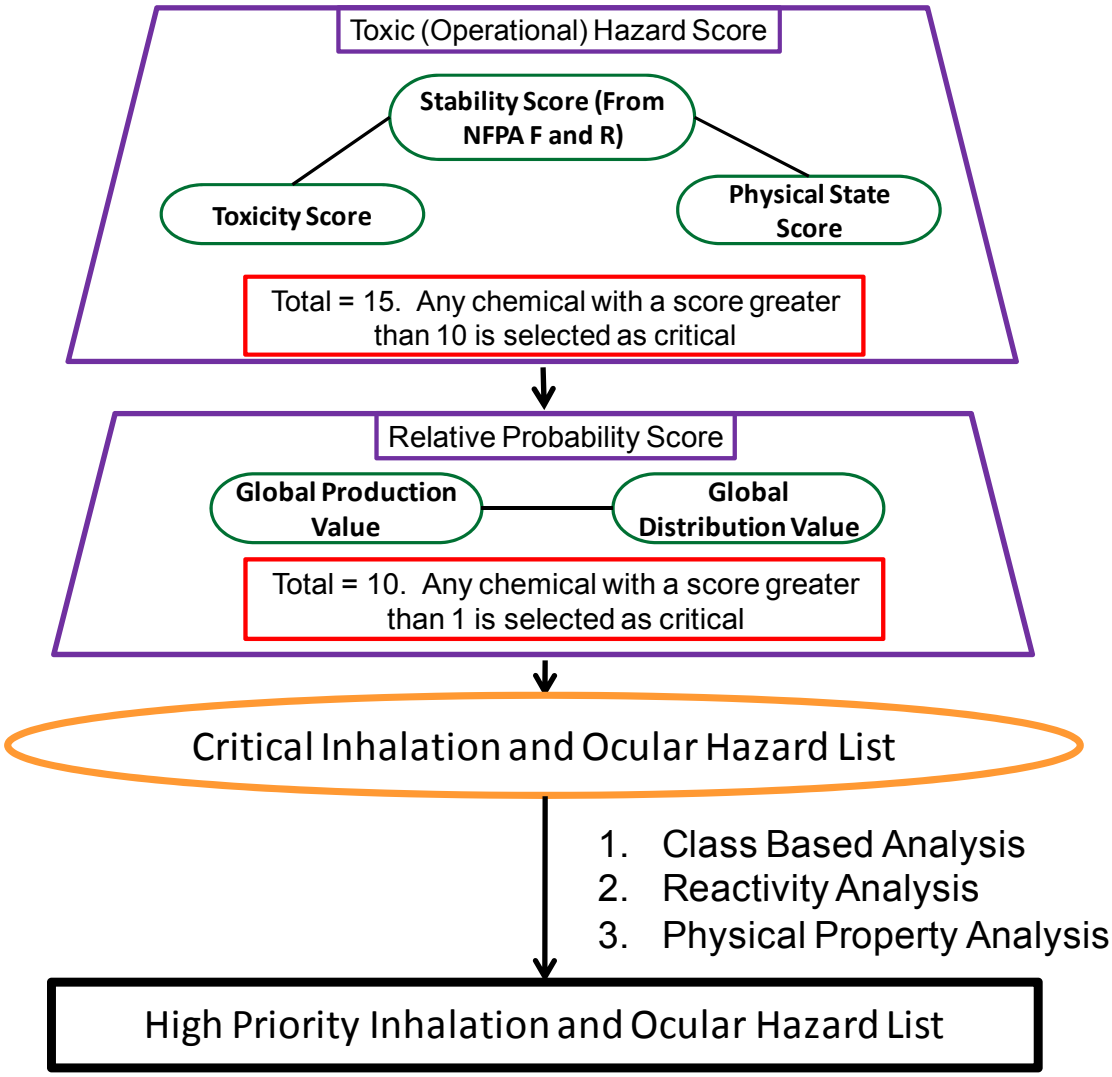


Fig. 1 — Flow chart of the NRL ICA prioritization process

### 3.1 Development of the Database

Because the analysis of the ITF-40 database revealed missing or incorrect data, the NRL ICA developed a new, comprehensive database, which for the assessment of inhalation/ocular hazards, contains 570 chemicals. Included in the NRL-ICA database are the raw data required to perform the prioritization (see the Appendix). The primary source for most of the chemical data is the EPA/NOAA CAMEO program, version 1.2.2. When necessary, this data is augmented by the 2007 Merck Index and peer-reviewed scientific literature. Chemicals are scored/prioritized according to their toxicity, stability, physical state, and production and distribution characteristics.

### *3.1.1 Toxic (Operational) Hazard Score*

Each chemical is given a score from 0 to 5 as a means of ranking its toxicity, stability, and physical state. These scores are then combined to generate the Toxic (Operational) Hazard Score, which ranges from 0 to 15.

#### 3.1.1.1 Toxicity Score

The inhalation toxicity of each chemical is based primarily on the EPA's AEGL-3 1-hr values in parts per million (ppm). For a chemical that does not have this data, the toxicity value is assigned based upon the CHPPM protocol.[9] The 570 chemicals display a wide range of toxicity values. To develop a meaningful scoring system, these values are placed on a logarithmic scale. This distribution provides clear ranges of toxicity values for assigning scores ranging from 0 to 5, where 5 is the most toxic. Table 5 shows the scoring protocol.

Table 5 — Inhalation Toxicity Scoring

| Toxicity Range (in ppm) | Toxicity Score |
|---|---|
| Inhalation Toxicity $\leq 1$ | 5 |
| $1 <$ Inhalation Toxicity $\leq 10$ | 4 |
| $10 <$ Inhalation Toxicity $\leq 100$ | 3 |
| $100 <$ Inhalation Toxicity $\leq 1000$ | 2 |
| $1000 <$ Inhalation Toxicity $\leq 2000$ | 1 |
| $2000 <$ Inhalation Toxicity | 0 |

#### 3.1.1.2 Stability Score

Chemical stability scoring is used to assess reactivity and flammability of a chemical. Highly reactive or flammable chemicals receive a low score. The basis for this scoring is that high reactivity and flammability pose less of a toxic hazard and more of an explosive hazard.

Reactivity is considered because an industrial chemical may react with the atmosphere or with water present in the atmosphere, and then either decompose — as in the case of diborane, which is unstable in air and rapidly breaks down to boric oxides and hydrogen, which is ignited by the heat of decomposition; or change to an alternate threat — as in the case of phosphoryl chloride, which generates an inhalation hazard of hydrogen chloride. Flammability is considered since highly flammable chemicals represent more of an explosive hazard given the multiple ignition sources in the operational environment. An example of this is ethylene oxide, whose explosive potential has been used in the battlefield in the form of fuel air bombs.

[9] USACHPPM, "Health-Based Chemical Vapor Concentration Levels for Future Systems Acquisition and Development," USACHPPM Tech. Report No. 64-FF-07Z2-07, U.S. Army Center for Health Promotion and Preventative Medicine, Aberdeen Proving Ground, MD, Feb. 2008.

The chemical stability score is calculated using NFPA reactivity (R) and flammability (F) values. The NFPA values of flammability and reactivity increase as the reactivity and flammability of a chemical increase; therefore, in the prioritization process, reactivity and flammability values are placed on an inverted scale to agree with the assessment that increased flammability and reactivity should decrease the toxic operational score of a chemical. Because toxicity is assessed on a 5-point scale, the NFPA values are also placed on a 5-point scale. This scoring protocol is shown in Table 6 and Table 7. The stability score of each TIC is calculated by averaging the flammability and reactivity scores.

Table 6 — Flammability Scoring

| NFPA Flammability Value | Flammability Score→ (4−F)×1.25 |
|---|---|
| 0 | 5 |
| 1 | 3.75 |
| 2 | 2.50 |
| 3 | 1.25 |
| 4 | 0 |

Table 7 — Reactivity Scoring

| NFPA Reactivity Value | Reactivity Score → (4−R)×1.25 |
|---|---|
| 0 | 5 |
| 1 | 3.75 |
| 2 | 2.50 |
| 3 | 1.25 |
| 4 | 0 |

#### 3.1.1.3 Physical State Score

The parameter of physical state is used to assess the volatility of a chemical. It should be noted, however, that since many industrial chemicals react with the environment, volatility alone does not necessarily determine downwind hazards. For this scoring, the physical state of a chemical is determined at ambient conditions (1 atm and 70 °F or 21 °C). See Table 8.

Table 8 — Physical State Scoring

| Physical State | Physical State Score |
|---|---|
| Gas | 5 |
| Liquid | 2.5 |
| Solid | 1 |

### *3.1.2 Relative Probability Score*

One of the most problematic aspects of assessing the potential hazard of industrial chemicals in the operational environment lies in the great uncertainty surrounding the global chemical industry. Although there are several databases that allow an estimation of how much of a certain chemical is manufactured, these consist of only voluntarily submitted data with no follow-on inspections to verify the data. Since a detailed, thorough inspection of each chemical plant is not feasible, there remains a significant degree of uncertainty in determining the exact probability of encountering any one chemical. Overall, a pseudo-probability function based on the production amount and distribution of a chemical is used to determine a total probability score. To represent global production amounts of a chemical, the total number of countries producing a chemical is used. To estimate the global distribution of a chemical, the total number of reported distribution sites for a chemical is used.

Here, data from the Directory of World Chemical Producers (DWCP) is used to determine both production and distribution scores. These two scores are then added to form the Relative Probability Score, which ranges from 0 to 10.

#### 3.1.2.1 Global Production Score

The global production score is used to account for the bulk quantities of TICs being produced. The data regarding the number of countries involved in the production of a specific TIC is maintained in the DWCP and is used to assign a production score from 0 to 5, as shown in Table 9.

Table 9 — Global Production Scoring

| Numbers of Producing Countries | Production Score |
|---|---|
| # of Countries $\geq$ 50 | 5 |
| 40 $\leq$ # of Countries < 50 | 4 |
| 30 $\leq$ # of Countries < 40 | 3 |
| 20 $\leq$ # of Countries < 30 | 2 |
| # of Countries $\leq$ 20 | 1 |
| # of Countries $\leq$ 10 | 0 |

#### 3.1.2.2 Global Distribution Score

The global distribution score is based on the number of global production and distribution sites appearing in the DWCP. This approach ensures accountability for the higher availability of certain chemicals regardless of the quantity produced. The scoring criteria are shown in Table 10.

Table 10 — Global Distribution Scoring

| Numbers of Sites Chemical is Available | Distribution Score |
|---|---|
| # of Sites $\geq$ 100 | 5 |
| 50 < # of Sites < 100 | 4 |
| 10 < # of Sites $\leq$ 50 | 3 |
| 5 < # of Sites $\leq$ 10 | 2 |
| 0 < # of Sites $\leq$ 5 | 1 |
| # of Sites = 0 | 0 |

#### 3.1.2.3 Threat Score

A separate threat score is developed to account for actual incident data or other threat information for particular TICs. This score is placed in the probability section of the database but is not used to determine the Relative Probability Score, due to the subjective nature of this data.

### 3.2 Generation of the Critical Inhalation/Ocular Toxic Hazard List

The next step in the prioritization approach is to use the previously described scores to generate a critical list. Any chemical with a Toxic (Operational) Hazard Score greater than 10 and a Relative Probability Score greater than 1 is designated as critical. Table 11 shows the Critical Inhalation/Ocular Hazard Chemical List.

This critical list contains 13 more chemicals than the critical list generated in the 2010 analysis (which used a database of 430 chemicals). The new critical chemicals are the following:

Boron tribromide
Boron trichloride
Chlorine trifluoride
Chlorosulfonic acid
Germanium tetrafluoride
Hexafluoroacetone
Hydrogen iodide
Methylphenyldichlorosilane
Oleum
Silicon tetrafluoride
Sulfur tetrafluoride
Thionyl chloride
Tungsten hexafluoride

Table 11 — Critical Inhalation/Ocular Hazard Chemical List

| Rank | Chemical | CAS Number | Toxic (Operational) Hazard Score | Probability Section | | Total Score |
|---|---|---|---|---|---|---|
| | | | | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 7782-50-5 | 13.00 | 10.00 | 5.00 | 28.00 |
| 2 | Hydrogen chloride | 7647-01-0 | 12.38 | 10.00 | 0.50 | 22.88 |
| 3 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 11.75 | 10.00 | 0.50 | 22.25 |
| 4 | Ammonia | 7664-41-7 | 10.38 | 10.00 | 5.00 | 25.38 |
| 5 | Sulfuric acid | 7664-93-9 | 10.25 | 10.00 | 2.50 | 22.75 |
| 6 | Nitric acid | 7697-37-2 | 10.50 | 9.00 | 0.50 | 20.00 |
| 7 | Hydrogen fluoride | 7664-39-3 | 12.38 | 7.00 | 2.50 | 21.88 |
| 8 | Sulfur dioxide | 7446-09-5 | 13.00 | 6.00 | 0.00 | 19.00 |
| 9 | Hydrogen bromide | 10035-10-6 | 12.00 | 5.00 | 0.00 | 17.00 |
| 10 | Phosphorus trichloride | 7719-12-2 | 10.25 | 5.00 | 0.00 | 15.25 |
| 11 | Phosgene | 75-44-5 | 14.38 | 4.00 | 0.50 | 18.88 |
| 12 | Nitric oxide #(I) | 10102-43-9 | 13.00 | 4.00 | 0.00 | 17.00 |
| 13 | OMPA | 152-16-9 | 12.50 | 4.00 | 0.50 | 17.00 |
| 14 | Boron trifluoride * | 7637-07-2 | 12.38 | 4.00 | 0.00 | 16.38 |
| 15 | Mercury | 7439-97-6 | 11.50 | 4.00 | 5.00 | 20.50 |
| 16 | Bromine | 7726-95-6 | 11.50 | 4.00 | 0.00 | 15.50 |
| 17 | Chlorine dioxide | 10049-04-4 | 11.50 | 4.00 | 0.00 | 15.50 |
| 18 | Oleum-E3* | 8014-95-7 | 11.50 | 4.00 | 0.00 | 15.50 |
| 19 | Methyl bromide | 74-83-9 | 11.38 | 4.00 | 0.50 | 15.88 |
| 20 | Phosphoryl Trichloride | 10025-87-3 | 11.25 | 4.00 | 0.50 | 15.75 |
| 21 | Fluorotrichloromethane #(T3) | 75-69-4 | 11.00 | 4.00 | 0.00 | 15.00 |
| 22 | Toluene-2,4-diisocyanate | 584-84-9 | 10.63 | 4.00 | 0.00 | 14.63 |
| 23 | Hydrogen sulfide | 7783-06-4 | 10.50 | 4.00 | 0.50 | 15.00 |
| 24 | Molybdophosphoric acid | 51429-74-4 | 10.50 | 4.00 | 0.50 | 15.00 |
| 25 | Fluorine | 7782-41-4 | 10.50 | 4.00 | 0.00 | 14.50 |
| 26 | Malathion * #(T3) | 121-75-5 | 10.50 | 4.00 | 0.00 | 14.50 |
| 27 | Boron trichloride T3 | 10294-34-5 | 10.25 | 4.00 | 0.00 | 14.25 |
| 28 | Tungsten hexafluoride-T3* | 7783-82-6 | 11.75 | 3.00 | 0.00 | 14.75 |
| 29 | Hexafluoroacetone E3 | 684-16-2 | 11.75 | 3.00 | 0.00 | 14.75 |
| 30 | Silicon tetrafluoride-T3* | 7783-61-1 | 11.75 | 3.00 | 0.00 | 14.75 |
| 31 | Acetylene tetrabromide #(T3) | 79-27-6 | 10.88 | 3.00 | 0.00 | 13.88 |
| 32 | o-Anisidine * #(T3) | 90-04-0 | 10.88 | 3.00 | 0.00 | 13.88 |
| 33 | Sulfur trioxide | 11/9/7446 | 10.75 | 3.00 | 0.00 | 13.75 |
| 34 | Hydrogen iodide T3 | 10034-85-2 | 10.75 | 3.00 | 0.00 | 13.75 |
| 35 | Parathion * | 56-38-2 | 10.63 | 3.00 | 0.50 | 14.13 |
| 36 | Ethylene dibromide | 106-93-4 | 10.50 | 3.00 | 0.00 | 13.50 |
| 37 | Phosphine | 7803-51-2 | 10.25 | 3.00 | 0.50 | 13.75 |
| 38 | Chlorosulfonic acid E3 | 7790-94-5 | 10.25 | 3.00 | 0.00 | 13.25 |
| 39 | Boron tribromide T3 | 10294-33-4 | 10.25 | 3.00 | 0.00 | 13.25 |
| 40 | Thionyl chloride-E3* | 7719-09-715 | 10.25 | 3.00 | 0.00 | 13.25 |
| 41 | Nitrogen dioxide | 10102-44-0 | 13.00 | 2.00 | 0.50 | 15.50 |
| 42 | Sulfur tetrafluoride-T3* | 7783-60-0 | 12.75 | 2.00 | 0.00 | 14.75 |
| 43 | Chlorine trifluoride E3 | 7790-91-2 | 12.13 | 2.00 | 0.00 | 14.13 |
| 44 | Germanium tetrafluoride T3 | 7783-58-6 | 11.75 | 2.00 | 0.00 | 13.75 |
| 45 | Arsine | 7784-42-1 | 11.25 | 2.00 | 0.50 | 13.75 |
| 46 | Pentachlorophenol * #(T3) | 87-86-5 | 11.00 | 2.00 | 0.00 | 13.00 |
| 47 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 10.50 | 2.00 | 0.00 | 12.50 |
| 48 | Azinphosmethyl * #(T3) | 86-50-0 | 10.38 | 2.00 | 0.50 | 12.88 |
| 49 | Methylphenyldichlorosilane-T3* | 149-74-6 | 10.25 | 2.00 | 0.00 | 12.25 |

## 3.3 Class-based Analysis of the Critical Inhalation/Ocular Toxic Hazard List

The next step in the prioritization process is to group the critical chemicals into like classes, to be followed by a reactivity and physical state analysis to allow further downselection.

### *3.3.1 NRL Class-based Approach*

To mitigate the uncertainty in the probability section of the database, a class-based analysis is used to group the chemicals in the critical list. Part of the downselection process is to then select the highest scoring chemical within each class. The purpose is to ensure that representatives of all of the main chemical classes are selected for the high priority list; although a chemical may score low due to a low Toxic (Operational) Hazard Score or low Probability Score, it will still be represented in the final list. The class-based analysis is crucial to ensure that the risk management aspects of the prioritization approach select a high priority list of chemicals that can be used to represent the vast diversity of chemicals found in the global chemical industry.

The class-based analysis developed by NRL is based on fundamental chemical reactivity principles. Since any chemical reaction is based upon the flow of electrons to form or break bonds, using terms based on the following definitions provides definitive, chemistry-based classes. The five principal classes of chemicals are described below.

- Oxidizers: An oxidizer is a chemical that readily accepts electrons in a chemical reaction. This class contains compounds typically considered as "acid-gas forming," such as hydrogen chloride, and also chlorine, fluorine, hydrogen peroxide, and ozone.

- Reducers: This class of compounds consists of chemicals that readily donate electrons in a chemical reaction. This class includes the "hydride family," such as ammonia, phosphine, and arsine, as well as hydrazines and amines. Additionally, compounds that fall into this class include many reactive metals, such as sodium, arsenic, thallium, and mercury.

- Volatile Organic Compounds: These are simple organic compounds addressed separately as specific types of both inhalation hazards and contact hazards (certain compounds of this class are strongly degrading to plastics and coatings). They are widely produced and used in the production industry and have a high vapor density. This class includes compounds such as methylene chloride, benzene, carbon disulfide, and carbon tetrachloride.

- "ANY"-icides: This class of compounds includes pesticides, herbicides, and poisons developed for various agricultural or industrial uses. Through decades of undocumented production and transport of these compounds, the hazard posed by these compounds globally is difficult to quantify. Many of them are among the most toxic compounds listed in the NIOSH Pocket Guide to Chemical Hazards, and they are stable and readily dispersed. Therefore, this class of compounds is addressed separately.

- Self-polymerizers: Polymerizable compounds are capable of undergoing self-reactions that release energy. Some polymerization reactions generate a great deal of heat. The products of polymerization reactions are generally less reactive than the starting materials. The reaction tendency of these compounds makes them behave differently in the environment and with other materials when compared to simple organic compounds such as carbon tetrachloride or carbon disulfide. Typically, these compounds are flammable and react with both oxidizers and reducers.

This class includes phosgene, cyanogen chloride, formaldehyde, acrylonitrile, and methyl isocyanate.

It should be noted that for the purposes of test and evaluation, other class-based approaches are possible.

### 3.4 Downselection to the High Priority Inhalation/Ocular Toxic Hazard List

Building on the class-based analysis, chemical and environmental reactivity and byproducts are next considered, to downselect to a high priority list of chemicals. Reactions and byproducts — especially of chemicals that readily react with air or water — might result in a reduced health hazard, a different type of hazard, or an additional hazard being present rather than that of the parent compound. Chemicals that undergo such a transformation should not be selected for the high priority list.

Through class-based analysis and reactivity assessment of the critical inhalation/ocular hazard list, certain chemicals are not selected as high priority inhalation and ocular hazards for the reasons documented below. The chemical analysis is based upon the environmental fate data.

1. Nitric oxide is not selected because it converts to nitrogen dioxide in the operational environment; therefore, nitric acid and nitrogen dioxide are paired in the list. Real-world incidents have shown that regardless of the grade of nitric acid (how much nitrogen dioxide is dissolved in it), the acid rapidly reacts with the environment to generate red clouds of nitrogen dioxide. Often this reaction is so vigorous that the red fumes of nitrogen dioxide are misinterpreted as the nitric acid being "on fire." This nitrogen dioxide then reacts with atmospheric water to generate a mixed threat of nitrogen dioxide and aerosolized nitric and nitrous acids.

2. Boron trifluoride is not selected since in the operational environment, it rapidly decomposes to hydrogen fluoride, which is already selected for the oxidizer class.

3. Phosphoryl trichloride is not selected since in the operational environment, this compound generates fumes of hydrogen chloride, which is already selected for the oxidizer class.

4. Chlorine dioxide is not selected since in the operational environment, it will rapidly generate hydrogen chloride, which is already selected for the oxidizer class.

5. Bromine and fluorine are not selected since they are isostructural with chlorine, which is already selected for the oxidizer class.

6. Phosphorus trichloride is not selected since in the operational environment, this compound generates fumes of hydrogen chloride, which is already selected for the oxidizer class.

7. Fluorotrichloromethane is not selected since methyl bromide is selected as the highest scoring of the volatile organic compound class.

8. Molybdophosphoric acid is not selected since other more volatile, toxic, and prevalent oxidizers are already selected.

9. Toluene-2,4-diisocyanate is not selected since other representatives are already selected for the self-polymerizer class.

10. Malathion, parathion, and azinphosmethyl are not selected since OMPA is selected to represent the pesticide class.

11. Acetylene tetrabromide, ethylene dibromide, and 1,1,2,2-tetrachloroethane are not selected since methyl bromide is selected as the highest scoring volatile organic compound.

12. o-Anisidine, arsine and phosphine are not selected since other higher scoring compounds in the reducing class are already selected. It should be noted that phosphine and arsine are isostructural with ammonia, but far less stable in the operational environment and more flammable.

13. Sulfur trioxide and pentachlorophenol are not selected since other representatives of the oxidizer class are already selected. It should be noted that sulfur trioxide converts to sulfuric acid in the operational environment. Additionally, sulfuric acid in aerosol form is selected as the representative inhalation/ocular hazard for multiple species such as sulfur trioxide, a variety of oleum concentrations, and "fuming" sulfur acid. For all of these compounds, the inhalation/ocular hazard in the operational environment is that of sulfuric acid in aerosol form.

14. Due to the expansion of the database, several additional chemicals appear on the critical list:

    a. Boron tribromide rapidly breaks down to generate HBr, which is already on the list.
    b. Boron trichloride, methylphenyldichlorosilane, and thionyl chloride all rapidly break down and generate HCl.
    c. Chlorine trifluoride, germanium tetrafluoride, silicon tetrafluoride, sulfur tetrafluoride, and tungsten hexafluoride all rapidly break down and generate HF.
    d. Hexafluoroacetone and methylphenyldichlorosilane are low scoring members of the simple organic class and as such are not selected.
    e. Hydrogen iodide is a low scoring member of the oxidizing class; HBr, HCl, and HF are already selected to represent this class.
    f. Oleum and chlorosulfonic acid both break down upon release to generate sulfuric acid, which is already selected. Chlorosulfonic acid will also generate HCl, which is also already selected.

Based upon the above analysis, the final High Priority Inhalation/Ocular Hazard list is generated (Table 12). This list is unchanged from the list derived in the 2010 analysis. Note that scoring within this high priority list is not of primary importance, and the chemicals are simply listed in alphabetical order.

Table 12 — High Priority Inhalation/Ocular Hazard List

| # | Chemical | CAS Number |
|---|---|---|
| 1 | Ammonia | 7664-41-7 |
| 2 | Chlorine | 7782-50-5 |
| 3 | Formaldehyde E3 | 50-00-0 |
| 4 | Hydrogen bromide | 10035-10-6 |
| 5 | Hydrogen chloride | 7647-01-0 |
| 6 | Hydrogen fluoride | 7664-39-3 |
| 7 | Hydrogen sulfide | 7783-06-4 |
| 8 | Mercury | 7439-97-6 |
| 9 | Methyl bromide | 74-83-9 |
| 10 | Nitric acid/Nitrogen Dioxide | 7697-37-2 |
| 11 | OMPA | 152-16-9 |
| 12 | Phosgene | 75-44-5 |
| 13 | Sulfur dioxide | 7446-09-5 |
| 14 | Sulfuric acid | 7664-93-9 |

| Oxidizer | Reducer | Volatile Organic | Pesticide/ Herbicide/Fungicide | Self-Polymerizer |
|---|---|---|---|---|

Follow-on test and evaluation will be used to evaluate this list to confirm the class-based analysis used in the assessment and, if possible, further downselect these chemicals.

Note that hydrogen cyanide and cyanogen chloride are not on these lists: hydrogen cyanide scores low due to its high flammability and reactivity, and cyanogen chloride scores low because it is not a commonly used industrial chemical. These two chemicals are selected as alternates for this list, but would be more properly considered as Schedule 3 Chemical Warfare Agents.

## 4 SENSITIVITY ANALYSIS

The final part of this prioritization and analysis is to examine how variations in the scoring methodology could affect the final high priority list. To that end, several variations were undertaken to alter the scoring algorithm used to assess the chemicals.

1. Removal of the stability score (Section 3.1.1.2) to assess based only on toxicity.

2. Doubling of the toxicity score (Section 3.1.1.1) to emphasize toxicity concerns.

3. Removal of the threat score (Section 3.1.2.3).

4. Basing the physical state score (Section 3.1.1.3) on the vapor pressure and/or vapor density, since the ability of a chemical to manifest an inhalation/ocular hazard is dependent on these two physical properties. Although it has long been assumed that the ratio of vapor pressure to toxicity is a critical parameter in the assessment of the potential inhalation hazard of a chemical, this simplistic view fails to consider the reactive nature of many industrial chemicals. For instance, sulfuric acid, at first glance, should create minimal vapor hazard, because it is a highly viscous and high boiling point liquid (near 300 °C). However, when released in an accident, the acid rapidly reacts with organic material and begins to boil. Thus, basing the potential inhalation hazard solely on vapor pressure would ignore the reactive nature of many industrial chemicals. Because many of these reactive compounds generate gases with very high relative vapor density, physical state scoring in this variation is based on both vapor pressure (between 60 and 80 °F) and vapor density (between 60 and 80 °F). To accomplish this portion of the sensitivity analysis, extensive literature review was required to collect these two data points. Of the 570 chemicals in the inhalation/ocular hazard database, vapor pressure and vapor density values could be found for only 534 chemicals. Thus, for this portion of the sensitivity analysis, the database is limited to 534 chemicals.

Shown on the following pages are the highest scoring chemicals from these different approaches; the detailed changes to the database are shown in the Appendix.

To derive the critical list when the stability score is removed, the threshold for the Toxic (Operational) Hazard Score is lowered from 10 to 7.5, since the highest total for this section is now 10 instead of 15. The threshold for the Relative Probability Score remains the same (greater than 1). With this variation in the prioritization, some of the more significant changes are that compounds known to be extremely unstable or explosive, such as diborane and methyl mercaptan, appear in the critical list now (Table 13). These results begin to resemble the ITF-40 results, in which toxicity was the key evaluation factor.

Table 13 — Critical Chemical List Without Stability Scoring

| Rank | Chemical | CAS Number |
|---|---|---|
| 1 | Chlorine | 7782-50-5 |
| 2 | Hydrogen chloride | 7647-01-0 |
| 3 | Formalin | 50-00-0 |
| 4 | Hydrogen fluoride | 7664-39-3 |
| 5 | Phosgene | 75-44-5 |
| 6 | Sulfur dioxide | 7446-09-5 |
| 7 | Chlorine dioxide | 10049-04-4 |
| 8 | Boron trichloride T3 | 10294-34-5 |
| 9 | Hydrogen sulfide | 7783-06-4 |
| 10 | Phosphine | 7803-51-2 |
| 11 | Arsine | 7784-42-1 |
| 12 | Nitric oxide #(I) | 10102-43-9 |
| 13 | Boron trifluoride * | 7637-07-2 |
| 14 | Fluorine | 7782-41-4 |
| 15 | Dichlorosilane T3 | 4109-96-0 |
| 16 | OMPA | 152-16-9 |
| 17 | Phosphoryl Trichloride | 10025-87-3 |
| 18 | Toluene-2,4-diisocyanate | 584-84-9 |
| 19 | Tungsten hexafluoride-T3* | 7783-82-6 |
| 20 | Hexafluoroacetone E3 | 684-16-2 |
| 21 | Silicon tetrafluoride-T3* | 7783-61-1 |
| 22 | Parathion * | 56-38-2 |
| 23 | Sulfur tetrafluoride-T3* | 7783-60-0 |
| 24 | Chlorine trifluoride E3 | 7790-91-2 |
| 25 | Diborane | 19287-45-7 |
| 26 | Nitrogen dioxide | 10102-44-0 |
| 27 | Germanium tetrafluoride | 7783-58-6 |
| 28 | Methyl mercaptan | 74-93-1 |
| 29 | Iron, pentacarbonyl- T3 | 13463-40-6 |

To derive the critical list when the toxicity score is doubled, the threshold for the Toxic (Operational) Hazard Score is raised from 10 to 15, since the highest total for this section is now 20. The threshold for the Relative Probability Score remains the same (greater than 1). With this variation, many more of the "ANY"-icide class appear in the critical list now (Table 14). This is attributable to the fact that they are among the most toxic, but not easily dispersed, industrial chemicals.

Table 14 — Critical Chemical List When Toxicity Score is Doubled

| Rank | Chemical | CAS Number |
|---|---|---|
| 1 | Chlorine | 7782-50-5 |
| 2 | Hydrogen chloride | 7647-01-0 |
| 3 | Formalin | 50-00-0 |
| 4 | Hydrogen fluoride | 7664-39-3 |
| 5 | Mercury | 7439-97-6 |
| 6 | Phosgene | 75-44-5 |
| 7 | Sulfur dioxide | 7446-09-5 |
| 8 | OMPA | 152-16-9 |
| 9 | Phosphoryl Trichloride | 10025-87-3 |
| 10 | Nitric oxide #(I) | 10102-43-9 |
| 11 | Toluene-2,4-diisocyanate | 584-84-9 |
| 12 | Bromine | 7726-95-6 |
| 13 | Chlorine dioxide | 10049-04-4 |
| 14 | Oleum-E3* | 8014-95-7 |
| 15 | Boron trifluoride * | 7637-07-2 |
| 16 | Benomyl | 17804-35-2 |
| 17 | Parathion * | 56-38-2 |
| 18 | Sulfur tetrafluoride-T3* | 7783-60-0 |
| 19 | Arsine | 7784-42-1 |
| 20 | Nitrogen dioxide | 10102-44-0 |
| 21 | Dicofol #(T3) | 115-32-2 |
| 22 | Chlorine trifluoride E3 | 7790-91-2 |
| 23 | Pentachlorophenol * #(T3) | 87-86-5 |
| 24 | Acetylene tetrabromide #(T3) | 79-27-6 |
| 25 | o-Anisidine * #(T3) | 90-04-0 |
| 26 | Azinphosmethyl * #(T3) | 86-50-0 |
| 27 | Tungsten hexafluoride-T3* | 7783-82-6 |
| 28 | Hexafluoroacetone E3 | 684-16-2 |
| 29 | Silicon tetrafluoride-T3* | 7783-61-1 |
| 30 | Iron, pentacarbonyl- T3 | 13463-40-6 |
| 31 | Germanium tetrafluoride T3 | 7783-58-6 |

In the variation in which the threat score is eliminated, there is no change to the critical list, since the threat score is not used to define the critical list.

### 4.1 Vapor Pressure and Vapor Density Sensitivity Analysis

Vapor pressure and vapor density data for 534 of the 570 chemicals in the inhalation/ocular hazard database were researched and inserted into the data table. To assess the effect of these two properties, the following changes were made to the calculation of the Toxic (Operational) Hazard Score.

First, because the highest vapor density reported is 14.3 (relative to air), all of the vapor density values are divided by 14.3 and then multiplied by 5, thus putting them on a 5-point scale. Next, a toxic/physical state value is derived by multiplying the vapor pressure times the vapor density score, and then dividing this number by the toxicity value in ppm. Although the units for this value are rather cumbersome, this calculation creates a range of values from very low to very high. To put them on a 5-point scale, scores are assigned based on the logarithmic distribution of the values, as shown in Table 15.

Table 15 — Toxicity/Physical State Scoring Criteria

| Toxicity Range (in ppm) | Toxicity Score |
|---|---|
| Value $\geq$ 10000 | 5 |
| 10000 > Value $\geq$ 1000 | 4 |
| 1000 < Value $\geq$ 100 | 3 |
| 100 < Value $\geq$ 10 | 2 |
| 10 < Value $\geq$ 1 | 1 |
| 1 > Value | 0 |

The stability score, based on flammability and reactivity, remains unchanged in this variation of the prioritization. However, the Toxic (Operational) Hazard Score is now based only on the sum of the stability score and the toxicity/physical state score, totaling 10. Therefore, the threshold for the Toxic (Operational) Hazard Score is set at 5: any chemical scoring higher than 5 is considered critical. The threshold for the Relative Probability Score is still 1. Table 16 shows the critical list that results from this revised scoring approach, while Table 17 shows the downselected, high priority list that results from a similar reactivity and class-based analysis as performed for the principal prioritization results.

Table 16 — Critical Chemical List Based on Vapor Pressure and Vapor Density Considerations

| Rank | Chemical | CAS Number |
|---|---|---|
| 1 | Chlorine | 7782-50-5 |
| 2 | Ammonia | 7664-41-7 |
| 3 | Hydrogen chloride | 7647-01-0 |
| 4 | Formalin solution | 50-00-0 |
| 5 | Hydrogen fluoride | 7664-39-3 |
| 6 | Sulfur dioxide | 7446-09-5 |
| 7 | Cobalt dichloride #(T3) | 7646-79-9 |
| 8 | Hydrogen bromide | 10035-10-6 |
| 9 | Phosgene | 75-44-5 |
| 10 | Nitric oxide #(I) | 10102-43-9 |
| 11 | Bromine | 7726-95-6 |
| 12 | Phosphorus trichloride | 7719-12-2 |
| 13 | Boron trifluoride * | 7637-07-2 |
| 14 | Phosphoryl Trichloride | 10025-87-3 |
| 15 | Methyl iodide #(E3) | 74-88-4 |
| 16 | Methyl bromide | 74-83-9 |
| 17 | Mercuric nitrate | 10045-94-0 |
| 18 | Nitrogen dioxide | 10102-44-0 |
| 19 | Tributyl phosphate #(T3) | 126-73-8 |
| 20 | Hydrogen sulfide | 7783-06-4 |
| 21 | Titanium tetrachloride-E3* | 7550-45-0 |
| 22 | Silicon tetrafluoride-T3* | 7783-61-1 |
| 23 | Hexafluoroacetone E3 | 684-16-2 |
| 24 | Tungsten hexafluoride-T3* | 7783-82-6 |
| 25 | Sulfuryl chloride-T3* | 7791-25-5 |
| 26 | Hydrogen iodide T3 | 10034-85-2 |
| 27 | Chlorine dioxide | 10049-04-4 |
| 28 | Fluorine | 7782-41-4 |
| 29 | Toluene-2,4-diisocyanate | 584-84-9 |
| 30 | Methyl chloroformate-T3* | 79-22-1 |
| 31 | Boron tribromide T3 | 10294-33-4 |
| 32 | Sulfur trioxide-E3* | 7446-11-9 |
| 33 | Germanium tetrafluoride T3 | 7783-58-6 |
| 34 | Arsine | 7784-42-1 |
| 35 | Chloropicrin | 76-06-2 |
| 36 | Propyl chloroformate-T3* | 109-61-5 |
| 37 | Iron, pentacarbonyl- T3 | 13463-40-6 |

Table 17 — High Priority Inhalation/Ocular Hazard List Based on Vapor Pressure and Vapor Density Considerations

| # | Chemical | CAS Number |
|---|---|---|
| 1 | Ammonia | 7664-41-7 |
| 2 | Chlorine | 7782-50-5 |
| 3 | Formalin solution | 50-00-0 |
| 4 | Hydrogen bromide | 10035-10-6 |
| 5 | Hydrogen chloride | 7647-01-0 |
| 6 | Hydrogen fluoride | 7664-39-3 |
| 7 | Hydrogen sulfide | 7783-06-4 |
| 8 | Methyl bromide | 74-83-9 |
| 9 | Nitrogen dioxide | 10102-44-0 |
| 10 | Phosgene | 75-44-5 |
| 11 | Sulfur dioxide | 7446-09-5 |
| 12 | Sulfur trioxide | 7446-11-9 |

There are several inconsequential changes relative to the high priority list derived from the principal prioritization results. Due to very low vapor pressure, no pesticide makes the list. Also, mercury does not make the priority list. Due to high flammability and high reactivity, hydrogen cyanide still does not make the list. Due to very low probability scores, cyanogen chloride still does not make the list. In place of sulfuric acid, sulfur trioxide makes the list. However, since a release of sulfur trioxide generates an inhalation hazard of sulfuric acid, this is not considered a significant change.

## 5 CONCLUSIONS

This report details the steps taken by NRL for JPM-P to develop a comprehensive, scientific prioritization of industrial chemicals. The main goal of this effort was to develop a high priority list of chemicals that comprehensively allows R&D and T&E to develop and test technologies for defensive purposes against industrial chemicals while significantly reducing the cost and burden of such activities.

The sensitivity analyses conducted further provide strong evidence that the scoring methodology used to produce the Toxic (Operational) Hazard Score does provide a valid means for balancing the toxicity value of a chemical and the actual ability of the chemical to manifest a toxic hazard in the operational environment.

Finally, it is important to note that this prioritization should not be used as the threat list for industrial chemicals. For instance, the prioritization does not imply that an adversary would never use phosphorus trichloride. However, because a release of phosphorus trichloride would generate a downwind hazard of hydrogen chloride, RDT&E efforts should instead focus on hydrogen chloride. Also, since the chemicals on the global list are not necessarily present in every region of the globe, a detailed analysis of a specific region's chemical industry is required to develop an applicable threat list.

**NAVAL RESEARCH LABORATORY**

**NRL/FR/6364—11-10,211**

# PRIORITIZATION AND SENSITIVITY ANALYSIS OF THE INHALATION/OCULAR HAZARD OF INDUSTRIAL CHEMICALS

*Thomas E. Sutto*
*Materials Science and Technology Division*

## APPENDIX
(distributed on CD-ROM only)

## Inhalation/Ocular Database and Prioritization Results

NRL ICA Database for Inhalation/Ocular Hazard Chemicals ..... A-1

Critical Inhalation/Ocular Hazard Chemicals ..... A-27

High Priority Inhalation/Ocular Hazard Chemicals ..... A-28

Sensitivity Analysis 1 Database (No Stability Score) ..... A-29

Sensitivity Analysis 2 Database (Double Toxicity Score) ..... A-38

Sensitivity Analysis 3 Database (No Threat Score) ..... A-64

Sensitivity Analysis 4 Database (Based on Vapor Pressure/Density) ..... A-90

Critical Inhalation/Ocular Hazards Based On Vapor Pressure and Vapor Density Considerations ..... A-114

High Priority Inhalation/Ocular Hazards Based On Vapor Pressure and Vapor Density Considerations ..... A-115

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Chlorine | 7782-50-5 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 2 | Ammonia | 7664-41-7 | 1100.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 3 | Hydrogen chloride | 7647-01-0 | 100.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 4 | Sulfuric acid | 7664-93-9 | 7.47 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 5 | Calcium Carbonate #(T3) | 471-34-1 | 3.66 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 6 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 5.00 |
| 7 | Hydrogen fluoride | 7664-39-3 | 44.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 8 | Calcium chloride | 10043-52-4 | 88.19 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 9 | Mercury | 7439-97-6 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 10 | Nitric acid | 7697-37-2 | 92.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 11 | Copper sulfate #(T3) | 7758-98-7 | 3.92 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 12 | Sodium Sulfate #(T3) | 7757-82-6 | 21.52 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 13 | Ammonium Chloride | 12125-02-9 | 228.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 14 | Arsenic Trioxide | 1327-53-3 | 1.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 15 | Sulfur dioxide | 7446-09-5 | 30.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 16 | Phosgene | 75-44-5 | 0.75 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 17 | Dibasic sodium phosphate | 10039-32-4 | 25.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 18 | Silica #(T3) | 7631-86-9 | 203.72 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 19 | Sodium bicarbonate #(T3) | 144-55-8 | 145.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 20 | Calcium Hydroxide #(T3) | 1305-62-0 | 165.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 21 | Acetic acid #(T3) | 64-19-7 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 22 | Chlorpyrifos #(T3) | 2921-88-2 | 5.23 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 23 | Magnesium Oxide #(T3) | 1309-48-4 | 303.35 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 24 | Sodium cyanide #(T3) | 143-33-9 | 19.96 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 25 | Isobutane-T3* | 75-28-5 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 26 | Hydrogen T3 | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 27 | Kerosene #(T3) | 8008-20-6 | 57.53 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 28 | Sodium Nitrate #(T3) | 7631-99-4 | 28.77 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 29 | Hydrogen peroxide #(E3) | 7722-84-1 | 100.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 30 | Gypsum #(T3 as K2CO3) | 13397-24-5 | 88.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 31 | Hydrogen bromide | 10035-10-6 | 120.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 32 | Lindane * #(T3) | 58-89-9 | 4.20 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 33 | Methomyl | 16752-77-5 | 30.13 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 34 | Nitric oxide #(I) | 10102-43-9 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 35 | OMPA | 152-16-9 | 0.30 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 36 | Phosphoric acid *#(T3) | 7664-38-2 | 124.70 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 37 | Diethylene glycol | 111-46-6 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.00 |
| 38 | Potassium dichromate #(T3) | 7778-50-9 | 3.32 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 39 | Propylene-T3* | 115-07-1 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 40 | Aniline | 62-53-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 41 | Potassium ferrocyanide #(T3) | 13943-58-3 | 3.42 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 42 | Propane | 74-98-6 | 33000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 43 | Sodium chloride #(T3) | 7647-14-5 | 209.19 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 44 | Sodium dodecyl sulfate #(T3) | 151-21-3 | 42.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 45 | Zinc | 7440-66-6 | 74.79 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 46 | Boron trifluoride * | 7637-07-2 | 39.66 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 47 | Sodium chlorate | 7775-09-9 | 17.22 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 13.00 | 63.00 | 5.00 | 344.00 | 5.00 | 10.00 | 5.00 | 28.00 |
| 2 | Ammonia | 10.38 | 56.00 | 5.00 | 348.00 | 5.00 | 10.00 | 5.00 | 25.38 |
| 3 | Hydrogen chloride | 12.38 | 63.00 | 5.00 | 528.00 | 5.00 | 10.00 | 0.50 | 22.88 |
| 4 | Sulfuric acid | 10.25 | 66.00 | 5.00 | 544.00 | 5.00 | 10.00 | 2.50 | 22.75 |
| 5 | Calcium Carbonate #(T3) | 10.00 | 52.00 | 5.00 | 309.00 | 5.00 | 10.00 | 2.50 | 22.50 |
| 6 | Formaldehyde (Formalin solution-37% methanol) E3 | 11.75 | 53.00 | 5.00 | 260.00 | 5.00 | 10.00 | 0.50 | 22.25 |
| 7 | Hydrogen fluoride | 12.38 | 25.00 | 2.00 | 138.00 | 5.00 | 7.00 | 2.50 | 21.88 |
| 8 | Calcium chloride | 9.00 | 43.00 | 4.00 | 208.00 | 5.00 | 9.00 | 2.50 | 20.50 |
| 9 | Mercury | 11.50 | 14.00 | 1.00 | 24.00 | 3.00 | 4.00 | 5.00 | 20.50 |
| 10 | Nitric acid | 10.50 | 49.00 | 4.00 | 226.00 | 5.00 | 9.00 | 0.50 | 20.00 |
| 11 | Copper sulfate #(T3) | 10.00 | 29.00 | 2.00 | 188.00 | 5.00 | 7.00 | 2.50 | 19.50 |
| 12 | Sodium Sulfate #(T3) | 9.00 | 36.00 | 3.00 | 200.00 | 5.00 | 8.00 | 2.50 | 19.50 |
| 13 | Ammonium Chloride | 7.38 | 25.00 | 2.00 | 141.00 | 5.00 | 7.00 | 5.00 | 19.38 |
| 14 | Arsenic Trioxide | 10.00 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 5.00 | 19.00 |
| 15 | Sulfur dioxide | 13.00 | 27.00 | 2.00 | 79.00 | 4.00 | 6.00 | 0.00 | 19.00 |
| 16 | Phosgene | 14.38 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 18.88 |
| 17 | Dibasic sodium phosphate | 9.00 | 22.00 | 2.00 | 125.00 | 5.00 | 7.00 | 2.50 | 18.50 |
| 18 | Silica #(T3) | 8.00 | 30.00 | 3.00 | 131.00 | 5.00 | 8.00 | 2.50 | 18.50 |
| 19 | Sodium bicarbonate #(T3) | 8.00 | 30.00 | 3.00 | 138.00 | 5.00 | 8.00 | 2.50 | 18.50 |
| 20 | Calcium Hydroxide #(T3) | 7.38 | 38.00 | 3.00 | 144.00 | 5.00 | 8.00 | 2.50 | 17.88 |
| 21 | Acetic acid #(T3) | 8.25 | 40.00 | 4.00 | 186.00 | 5.00 | 9.00 | 0.50 | 17.75 |
| 22 | Chlorpyrifos #(T3) | 10.00 | 17.00 | 1.00 | 71.00 | 4.00 | 5.00 | 2.50 | 17.50 |
| 23 | Magnesium Oxide #(T3) | 8.00 | 28.00 | 2.00 | 134.00 | 5.00 | 7.00 | 2.50 | 17.50 |
| 24 | Sodium cyanide #(T3) | 9.00 | 21.00 | 2.00 | 52.00 | 4.00 | 6.00 | 2.50 | 17.50 |
| 25 | Isobutane-T3* | 7.50 | 68.00 | 5.00 | 409.00 | 5.00 | 10.00 | 0.00 | 17.50 |
| 26 | Hydrogen T3 | 7.50 | 70.00 | 5.00 | 340.00 | 5.00 | 10.00 | 0.00 | 17.50 |
| 27 | Kerosene #(T3) | 9.25 | 35.00 | 3.00 | 102.00 | 5.00 | 8.00 | 0.00 | 17.25 |
| 28 | Sodium Nitrate #(T3) | 7.75 | 23.00 | 2.00 | 124.00 | 5.00 | 7.00 | 2.50 | 17.25 |
| 29 | Hydrogen peroxide #(E3) | 8.63 | 38.00 | 3.00 | 172.00 | 5.00 | 8.00 | 0.50 | 17.13 |
| 30 | Gypsum #(T3 as K2CO3) | 9.00 | 36.00 | 3.00 | 127.00 | 5.00 | 8.00 | 0.00 | 17.00 |
| 31 | Hydrogen bromide | 12.00 | 16.00 | 1.00 | 73.00 | 4.00 | 5.00 | 0.00 | 17.00 |
| 32 | Lindane * #(T3) | 10.00 | 3.00 | 0.00 | 9.00 | 2.00 | 2.00 | 5.00 | 17.00 |
| 33 | Methomyl | 9.00 | 9.00 | 0.00 | 46.00 | 3.00 | 3.00 | 5.00 | 17.00 |
| 34 | Nitric oxide #(I) | 13.00 | 11.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 17.00 |
| 35 | OMPA | 12.50 | 11.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 17.00 |
| 36 | Phosphoric acid *#(T3) | 8.00 | 49.00 | 4.00 | 245.00 | 5.00 | 9.00 | 0.00 | 17.00 |
| 37 | Diethylene glycol | 9.38 | 30.00 | 3.00 | 94.00 | 4.00 | 7.00 | 0.50 | 16.88 |
| 38 | Potassium dichromate #(T3) | 9.38 | 17.00 | 1.00 | 69.00 | 4.00 | 5.00 | 2.50 | 16.88 |
| 39 | Propylene-T3* | 6.88 | 52.00 | 5.00 | 211.00 | 5.00 | 10.00 | 0.00 | 16.88 |
| 40 | Aniline | 9.25 | 16.00 | 1.00 | 64.00 | 4.00 | 5.00 | 2.50 | 16.75 |
| 41 | Potassium ferrocyanide #(T3) | 10.00 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 2.50 | 16.50 |
| 42 | Propane | 7.50 | 42.00 | 4.00 | 142.00 | 5.00 | 9.00 | 0.00 | 16.50 |
| 43 | Sodium chloride #(T3) | 8.00 | 38.00 | 3.00 | 175.00 | 5.00 | 8.00 | 0.50 | 16.50 |
| 44 | Sodium dodecyl sulfate #(T3) | 9.00 | 27.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.50 | 16.50 |
| 45 | Zinc | 9.00 | 31.00 | 3.00 | 90.00 | 4.00 | 7.00 | 0.50 | 16.50 |
| 46 | Boron trifluoride * | 12.38 | 11.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 16.38 |
| 47 | Sodium chlorate | 7.75 | 20.00 | 2.00 | 59.00 | 4.00 | 6.00 | 2.50 | 16.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 48 | Ethyl alcohol #(T3) | 64-17-5 | 3300.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 49 | Ammonium nitrate, no organic coating T3 | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 50 | Ammonium nitrate, with organic coating | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 51 | Selenium hexafluoride | 7783-79-1 | 0.26 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 52 | Chloroacetyl chloride E3 | 79-04-9 | 10.00 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 53 | Dibutyl phthalate *#(T3) | 84-74-2 | 43.90 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 54 | Methyl bromide | 74-83-9 | 740.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 55 | Potassium Hydroxide #(T3) | 1310-58-3 | 65.36 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 56 | Silver nitrate #(T3) | 7761-88-8 | 2.17 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 57 | Hydrogen cyanide | 74-90-8 | 15.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 58 | Phosphoryl Trichloride | 10025-87-3 | 0.85 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 59 | Acetylene *T3 | 74-86-2 | 6000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 60 | Sodium hydroxide #(E3) | 1310-73-2 | 30.56 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 61 | Bromine | 7726-95-6 | 8.50 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 62 | Carbendazim | 10605-21-7 | 3.25 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 63 | Chlorine dioxide | 10049-04-4 | 2.40 | 4.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |
| 64 | Cobalt dichloride #(T3) | 7646-79-9 | 51.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 65 | Cyanogen Chloride | 460-19-5 | 10.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 66 | Iodine #(E3) | 7553-56-2 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 67 | Lead Oxide (#T3) | 1309-60-0 | 10.22 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 68 | Mercuric chloride #(T3 of Hg) | 7487-94-7 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 69 | Nitrogen dioxide | 10102-44-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 70 | Potassium cyanide #(T3) | 151-50-8 | 22.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 71 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 7778-53-2 | 89.84 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 72 | Oleum-E3* | 8014-95-7 | 4.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 73 | Dichlorvos | 62-73-7 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 74 | Iron oxide #(T3) | 1309-37-1 | 76.55 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 75 | Tetrafluoroboric acid #(T3) | 16872-11-0 | 11.14 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 76 | Ethanolamine #(T3) | 141-43-5 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 77 | Formic acid #(T3) | 64-18-6 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 78 | Phosphorus trichloride | 7719-12-2 | 5.60 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 79 | Benzene | 71-43-2 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 80 | Ethyl acetate #(T3) | 141-78-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 81 | Isobutyl alcohol #(T3) | 78-83-1 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 82 | Isopropyl alcohol #(T3) | 67-63-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 83 | Methyl alcohol | 67-56-1 | 7200.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 84 | Nitrobenzene #(T3) | 98-95-3 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 85 | Toluene | 108-88-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 86 | Carbon monoxide/Syngas | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 87 | Cypermethrin #(I as in pyrethrum) | 52315-07-8 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 88 | Fluorotrichloromethane #(T3) | 75-69-4 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 89 | Hydrogen sulfide | 7783-06-4 | 50.00 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 90 | Molybdophosphoric acid | 51429-74-4 | 37.05 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 91 | Acephate | 30560-19-1 | 5.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 92 | Barium nitrate *T3 | 10022-31-8 | 7.02 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 48 | Ethyl alcohol #(T3) | 5.63 | 51.00 | 5.00 | 321.00 | 5.00 | 10.00 | 0.50 | 16.13 |
| 49 | Ammonium nitrate, no organic coating T3 | 6.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 16.13 |
| 50 | Ammonium nitrate, with organic coating | 6.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 16.13 |
| 51 | Selenium hexafluoride | 15.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 16.00 |
| 52 | Chloroacetyl chloride E3 | 9.00 | 25.00 | 2.00 | 179.00 | 5.00 | 7.00 | 0.00 | 16.00 |
| 53 | Dibutyl phthalate *#(T3) | 9.88 | 27.00 | 2.00 | 88.00 | 4.00 | 6.00 | 0.00 | 15.88 |
| 54 | Methyl bromide | 11.38 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 15.88 |
| 55 | Potassium Hydroxide #(T3) | 8.38 | 24.00 | 2.00 | 107.00 | 5.00 | 7.00 | 0.50 | 15.88 |
| 56 | Silver nitrate #(T3) | 9.38 | 22.00 | 2.00 | 80.00 | 4.00 | 6.00 | 0.50 | 15.88 |
| 57 | Hydrogen cyanide | 6.75 | 13.00 | 1.00 | 25.00 | 3.00 | 4.00 | 5.00 | 15.75 |
| 58 | Phosphoryl Trichloride | 11.25 | 14.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 15.75 |
| 59 | Acetylene *T3 | 5.63 | 93.00 | 5.00 | 253.00 | 5.00 | 10.00 | 0.00 | 15.63 |
| 60 | Sodium hydroxide #(E3) | 5.00 | 64.00 | 5.00 | 477.00 | 5.00 | 10.00 | 0.50 | 15.50 |
| 61 | Bromine | 11.50 | 12.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 62 | Carbendazim | 10.00 | 16.00 | 1.00 | 62.00 | 4.00 | 5.00 | 0.50 | 15.50 |
| 63 | Chlorine dioxide | 11.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 64 | Cobalt dichloride #(T3) | 9.00 | 22.00 | 2.00 | 90.00 | 4.00 | 6.00 | 0.50 | 15.50 |
| 65 | Cyanogen Chloride | 14.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 15.50 |
| 66 | Iodine #(E3) | 10.00 | 19.00 | 1.00 | 80.00 | 4.00 | 5.00 | 0.50 | 15.50 |
| 67 | Lead Oxide (#T3) | 9.00 | 10.00 | 1.00 | 20.00 | 3.00 | 4.00 | 2.50 | 15.50 |
| 68 | Mercuric chloride #(T3 of Hg) | 10.00 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 2.50 | 15.50 |
| 69 | Nitrogen dioxide | 13.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 15.50 |
| 70 | Potassium cyanide #(T3) | 9.00 | 14.00 | 1.00 | 23.00 | 3.00 | 4.00 | 2.50 | 15.50 |
| 71 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 9.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 2.50 | 15.50 |
| 72 | Oleum-E3* | 11.50 | 9.00 | 0.00 | 81.00 | 4.00 | 4.00 | 0.00 | 15.50 |
| 73 | Dichlorvos | 9.88 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.50 | 15.38 |
| 74 | Iron oxide #(T3) | 8.38 | 27.00 | 2.00 | 141.00 | 5.00 | 7.00 | 0.00 | 15.38 |
| 75 | Tetrafluoroboric acid #(T3) | 9.88 | 17.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.50 | 15.38 |
| 76 | Ethanolamine #(T3) | 9.25 | 20.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 15.25 |
| 77 | Formic acid #(T3) | 9.25 | 26.00 | 2.00 | 84.00 | 4.00 | 6.00 | 0.00 | 15.25 |
| 78 | Phosphorus trichloride | 10.25 | 11.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.00 | 15.25 |
| 79 | Benzene | 5.63 | 42.00 | 4.00 | 291.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 80 | Ethyl acetate #(T3) | 6.63 | 30.00 | 3.00 | 139.00 | 5.00 | 8.00 | 0.50 | 15.13 |
| 81 | Isobutyl alcohol #(T3) | 6.63 | 27.00 | 2.00 | 80.00 | 4.00 | 6.00 | 2.50 | 15.13 |
| 82 | Isopropyl alcohol #(T3) | 6.63 | 24.00 | 2.00 | 90.00 | 4.00 | 6.00 | 2.50 | 15.13 |
| 83 | Methyl alcohol | 5.63 | 47.00 | 4.00 | 268.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 84 | Nitrobenzene #(T3) | 7.63 | 12.00 | 1.00 | 55.00 | 4.00 | 5.00 | 2.50 | 15.13 |
| 85 | Toluene | 5.63 | 40.00 | 4.00 | 237.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 86 | Carbon monoxide/Syngas | 7.50 | 31.00 | 3.00 | 55.00 | 4.00 | 7.00 | 0.50 | 15.00 |
| 87 | Cypermethrin #(I as in pyrethrum) | 9.50 | 15.00 | 1.00 | 89.00 | 4.00 | 5.00 | 0.50 | 15.00 |
| 88 | Fluorotrichloromethane #(T3) | 11.00 | 12.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.00 | 15.00 |
| 89 | Hydrogen sulfide | 10.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.50 | 15.00 |
| 90 | Molybdophosphoric acid | 10.50 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 15.00 |
| 91 | Acephate | 9.38 | 9.00 | 0.00 | 49.00 | 3.00 | 3.00 | 2.50 | 14.88 |
| 92 | Barium nitrate *T3 | 9.38 | 15.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.50 | 14.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 93 | Imidacloprid #(E3) | 105827-78-9 | 2.03 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 94 | Lead nitrate | 10099-74-8 | 11.07 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 95 | Potassium nitrate #(T3) | 7757-79-1 | 120.91 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 96 | Sulfur tetrafluoride-T3* | 7783-60-0 | 2.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 97 | Tungsten hexafluoride-T3* | 7783-82-6 | 32.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 98 | Hexafluoroacetone E3 | 684-16-2 | 50.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 99 | Silicon tetrafluoride-T3* | 7783-61-1 | 100.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 100 | Ethylene oxide | 75-21-8 | 200.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 101 | Toluene-2,4-diisocyanate | 584-84-9 | 0.51 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 102 | Xylenes #(T3) | 95-47-6 | 900.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 103 | Cadmium | 7440-43-9 | 1.96 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 104 | Copper oxychloride #(E3) | 1332-40-7 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 105 | Dimethoate #(T3) | 60-51-5 | 3.19 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 106 | Endosulfan | 115-29-7 | 2.10 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 107 | Fluorine | 7782-41-4 | 13.00 | 3.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |
| 108 | Malathion * #(T3) | 121-75-5 | 18.50 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 109 | Red mercuric oxide | 21908-53-2 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 110 | Sodium fluoride #(T3) | 7681-49-4 | 43.76 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 111 | Strychnine Sulfate #(T3) | 60-41-3 | 0.29 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 112 | Butane T3 | 106-97-8 | 19000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 113 | Phenyl etherbiphenyl mixture (vapor) #(I) | 8004-13-5 | 10.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 114 | Nitrosyl chloride-T3* | 2696-92-6 | 2.50 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 115 | 1,3-Butadiene | 106-99-0 | 22000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 116 | Benomyl | 17804-35-2 | 0.84 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 117 | Cyclohexanone #(T3) | 108-94-1 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 118 | Paracetamol #(E3-phenol) | 103-90-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 119 | Phenol #(E3) | 108-95-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 120 | Boron trichloride T3 | 10294-34-5 | 2.50 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 121 | Parathion * | 56-38-2 | 0.17 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 122 | Chlorine trifluoride E3 | 7790-91-2 | 10.00 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 123 | Carbon tetrachloride | 56-23-5 | 520.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 124 | Chloroform | 67-66-3 | 3200.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 125 | Deltamethrin #(I as in pyrethrum) | 52918-63-5 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 126 | Dichlorodifluoromethane #(T3) | 75-71-8 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 127 | Phosphamidon #(T3) | 13171-21-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 128 | Sulfuryl fluoride | 2699-79-8 | 64.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 129 | Thiram * #(T3) | 137-26-8 | 10.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 130 | Acetylene tetrabromide #(T3) | 79-27-6 | 8.00 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 131 | Ammonium persulfate *T3 | 7727-54-0 | 10.71 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 132 | Atrazine *T3 | 1912-24-9 | 1.50 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 133 | Castor oil #(T3) | 8001-79-4 | 13.12 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 134 | Cobalt (II) nitrate | 10141-05-6 | 12.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 135 | Dimethylphthalate * #(T3) | 131-11-3 | 62.96 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 136 | o-Anisidine * #(T3) | 90-04-0 | 9.93 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 137 | Paraquat* (dichloride) | 1910-42-5 | 19.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 138 | Potassium permanganate #(T3) | 7722-64-7 | 19.34 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 139 | Tributyl phosphate #(T3) | 126-73-8 | 30.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 93 | Imidacloprid #(E3) | 9.38 | 10.00 | 1.00 | 75.00 | 4.00 | 5.00 | 0.50 | 14.88 |
| 94 | Lead nitrate | 8.38 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 2.50 | 14.88 |
| 95 | Potassium nitrate #(T3) | 7.38 | 24.00 | 2.00 | 117.00 | 5.00 | 7.00 | 0.50 | 14.88 |
| 96 | Sulfur tetrafluoride-T3* | 12.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 14.75 |
| 97 | Tungsten hexafluoride-T3* | 11.75 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 14.75 |
| 98 | Hexafluoroacetone E3 | 11.75 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 14.75 |
| 99 | Silicon tetrafluoride-T3* | 11.75 | 9.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 14.75 |
| 100 | Ethylene oxide | 7.63 | 32.00 | 3.00 | 84.00 | 4.00 | 7.00 | 0.00 | 14.63 |
| 101 | Toluene-2,4-diisocyanate | 10.63 | 12.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 14.63 |
| 102 | Xylenes #(T3) | 7.63 | 32.00 | 3.00 | 76.00 | 4.00 | 7.00 | 0.00 | 14.63 |
| 103 | Cadmium | 10.00 | 19.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 104 | Copper oxychloride #(E3) | 9.00 | 21.00 | 2.00 | 41.00 | 3.00 | 5.00 | 0.50 | 14.50 |
| 105 | Dimethoate #(T3) | 10.00 | 11.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 106 | Endosulfan | 10.00 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 107 | Fluorine | 10.50 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.00 | 14.50 |
| 108 | Malathion * #(T3) | 10.50 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 14.50 |
| 109 | Red mercuric oxide | 10.00 | 11.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 110 | Sodium fluoride #(T3) | 9.00 | 16.00 | 1.00 | 85.00 | 4.00 | 5.00 | 0.50 | 14.50 |
| 111 | Strychnine Sulfate #(T3) | 11.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 2.50 | 14.50 |
| 112 | Butane T3 | 7.50 | 36.00 | 3.00 | 97.00 | 4.00 | 7.00 | 0.00 | 14.50 |
| 113 | Phenyl etherbiphenyl mixture (vapor) #(I) | 13.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 14.38 |
| 114 | Nitrosyl chloride-T3* | 13.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 14.38 |
| 115 | 1,3-Butadiene | 6.25 | 31.00 | 3.00 | 111.00 | 5.00 | 8.00 | 0.00 | 14.25 |
| 116 | Benomyl | 9.75 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 14.25 |
| 117 | Cyclohexanone #(T3) | 8.25 | 25.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 14.25 |
| 118 | Paracetamol #(E3-phenol) | 6.75 | 23.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.50 | 14.25 |
| 119 | Phenol #(E3) | 6.75 | 26.00 | 2.00 | 129.00 | 5.00 | 7.00 | 0.50 | 14.25 |
| 120 | Boron trichloride T3 | 10.25 | 16.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 14.25 |
| 121 | Parathion * | 10.63 | 3.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 14.13 |
| 122 | Chlorine trifluoride E3 | 12.13 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.13 |
| 123 | Carbon tetrachloride | 9.50 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 14.00 |
| 124 | Chloroform | 7.50 | 20.00 | 2.00 | 81.00 | 4.00 | 6.00 | 0.50 | 14.00 |
| 125 | Deltamethrin #(I as in pyrethrum) | 9.50 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 14.00 |
| 126 | Dichlorodifluoromethane #(T3) | 10.00 | 14.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 14.00 |
| 127 | Phosphamidon #(T3) | 12.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 14.00 |
| 128 | Sulfuryl fluoride | 13.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 14.00 |
| 129 | Thiram * #(T3) | 9.00 | 17.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.00 | 14.00 |
| 130 | Acetylene tetrabromide #(T3) | 10.88 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 13.88 |
| 131 | Ammonium persulfate *T3 | 8.38 | 12.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 13.88 |
| 132 | Atrazine *T3 | 9.38 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 13.88 |
| 133 | Castor oil #(T3) | 9.88 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 13.88 |
| 134 | Cobalt (II) nitrate | 8.38 | 18.00 | 1.00 | 70.00 | 4.00 | 5.00 | 0.50 | 13.88 |
| 135 | Dimethylphthalate * #(T3) | 9.88 | 16.00 | 1.00 | 36.00 | 3.00 | 4.00 | 0.00 | 13.88 |
| 136 | o-Anisidine * #(T3) | 10.88 | 5.00 | 0.00 | 24.00 | 3.00 | 3.00 | 0.00 | 13.88 |
| 137 | Paraquat* (dichloride) | 8.38 | 8.00 | 0.00 | 29.00 | 3.00 | 3.00 | 2.50 | 13.88 |
| 138 | Potassium permanganate #(T3) | 8.38 | 16.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 13.88 |
| 139 | Tributyl phosphate #(T3) | 9.88 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 13.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 140 | MDEA-R* (N-Methyldiethanolamine | 105-59-9 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 141 | Magnesium (powder)-T3* | 7439-95-4 | 251.49 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 142 | Arsine | 7784-42-1 | 0.50 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 143 | Dimethylformamide | 68-12-2 | 530.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 144 | Naphthalene #(T3) | 91-20-3 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 145 | Phosphine | 7803-51-2 | 3.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 146 | Sodium sulfide #(T3) | 1313-82-2 | 23.51 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 147 | Sulfur trioxide | 11/9/7446 | 160.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 148 | Germanium tetrafluoride T3 | 7783-58-6 | 82.25 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 149 | Hydrogen iodide T3 | 10034-85-2 | 120.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 150 | Acetone | 67-64-1 | 5700.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 151 | Dimethyl sulfate | 77-78-1 | 1.60 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 152 | Ethylene dichloride #(E3) | 107-06-2 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 153 | Furfural #(E3) | 98-01-1 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 154 | n-Butyl acetate #(E3) | 123-86-4 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 155 | n-Butyl alcohol #(T3) | 71-36-3 | 1400.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 156 | Periodic acid | 10450-60-9 | 0.54 | 5.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 157 | Arsenic *T3 | 7440-38-2 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 158 | Bromoform #(T3) | 75-25-2 | 850.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 159 | Dimethylamine | 124-40-3 | 250.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 160 | Ethylamine | 75-04-7 | 270.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 161 | Ethylene dibromide | 106-93-4 | 46.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 162 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 57837-19-1 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 163 | Methylamine | 74-89-5 | 350.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 164 | Metribuzin #(T3 as diazo compound) | 21087-64-9 | 10.98 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 165 | Phosdrin * #(T3) (Mevinphos) | 7786-34-7 | 0.44 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 166 | Potassium fluoride #(T3) | 7789-23-3 | 210.38 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 167 | Sodium borate | 12179-04-3 | 32.09 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 168 | TEDP * #(T3) | 3689-24-5 | 0.76 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 169 | Aluminum (powder) *T3 | 7429-90-5 | 226.54 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 170 | Diphenyl Ether #(T3) | 101-84-8 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 171 | Fenvalerate | 51630-58-1 | 29.11 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 172 | Methyl iodide #(E3) | 74-88-4 | 125.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 173 | Methylene chloride | 75-09-2 | 6900.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 174 | Oxalic acid * #(T3) | 144-62-7 | 135.77 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 175 | Phosphotungstic acid #(T3 of tungstic acid) | 12067-99-1 | 13.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 176 | Polyphosphoric acid | 68333-79-9 | 14.47 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 177 | TEPP * #(T3) | 107-49-3 | 0.42 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 178 | Carbonyl fluoride T3 | 353-50-4 | 20.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 179 | Dicofol #(T3) | 115-32-2 | 0.50 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 180 | Ethylenediamine | 107-15-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 181 | N,N-Dimethylaniline #(T3) | 121-69-7 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 182 | o-Toluidine #(T3) | 95-53-4 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 183 | Phosphorus | 7723-14-0 | 3.16 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 184 | Chlorosulfonic acid E3 | 7790-94-5 | 6.29 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 185 | Boron tribromide T3 | 10294-33-4 | 5.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 140 | MDEA-R* (N-Methyldiethanolamine | 8.88 | 24.00 | 2.00 | 44.00 | 3.00 | 5.00 | 0.00 | 13.88 |
| 141 | Magnesium (powder)-T3* | 4.88 | 42.00 | 4.00 | 423.00 | 5.00 | 9.00 | 0.00 | 13.88 |
| 142 | Arsine | 11.25 | 8.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 13.75 |
| 143 | Dimethylformamide | 8.25 | 19.00 | 1.00 | 64.00 | 4.00 | 5.00 | 0.50 | 13.75 |
| 144 | Naphthalene #(T3) | 6.75 | 25.00 | 2.00 | 103.00 | 5.00 | 7.00 | 0.00 | 13.75 |
| 145 | Phosphine | 10.25 | 9.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.50 | 13.75 |
| 146 | Sodium sulfide #(T3) | 7.75 | 21.00 | 2.00 | 86.00 | 4.00 | 6.00 | 0.00 | 13.75 |
| 147 | Sulfur trioxide | 10.75 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 13.75 |
| 148 | Germanium tetrafluoride T3 | 11.75 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 13.75 |
| 149 | Hydrogen iodide T3 | 10.75 | 2.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 13.75 |
| 150 | Acetone | 5.63 | 30.00 | 3.00 | 146.00 | 5.00 | 8.00 | 0.00 | 13.63 |
| 151 | Dimethyl sulfate | 9.63 | 12.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 152 | Ethylene dichloride #(E3) | 7.63 | 28.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 13.63 |
| 153 | Furfural #(E3) | 8.63 | 19.00 | 1.00 | 66.00 | 4.00 | 5.00 | 0.00 | 13.63 |
| 154 | n-Butyl acetate #(E3) | 5.63 | 30.00 | 3.00 | 124.00 | 5.00 | 8.00 | 0.00 | 13.63 |
| 155 | n-Butyl alcohol #(T3) | 6.63 | 26.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.00 | 13.63 |
| 156 | Periodic acid | 9.13 | 10.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.50 | 13.63 |
| 157 | Arsenic *T3 | 10.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 13.50 |
| 158 | Bromoform #(T3) | 9.50 | 10.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 159 | Dimethylamine | 9.50 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 160 | Ethylamine | 9.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 161 | Ethylene dibromide | 10.50 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 13.50 |
| 162 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 10.00 | 8.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 13.50 |
| 163 | Methylamine | 9.50 | 14.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 164 | Metribuzin #(T3 as diazo compound) | 9.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 13.50 |
| 165 | Phosdrin * #(T3) (Mevinphos) | 12.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 13.50 |
| 166 | Potassium fluoride #(T3) | 8.00 | 14.00 | 1.00 | 82.00 | 4.00 | 5.00 | 0.50 | 13.50 |
| 167 | Sodium borate | 9.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 2.50 | 13.50 |
| 168 | TEDP * #(T3) | 12.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.50 |
| 169 | Aluminum (powder) *T3 | 5.50 | 39.00 | 3.00 | 520.00 | 5.00 | 8.00 | 0.00 | 13.50 |
| 170 | Diphenyl Ether #(T3) | 9.88 | 5.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 13.38 |
| 171 | Fenvalerate | 9.88 | 6.00 | 0.00 | 48.00 | 3.00 | 3.00 | 0.50 | 13.38 |
| 172 | Methyl iodide #(E3) | 8.88 | 10.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.50 | 13.38 |
| 173 | Methylene chloride | 6.88 | 21.00 | 2.00 | 83.00 | 4.00 | 6.00 | 0.50 | 13.38 |
| 174 | Oxalic acid * #(T3) | 7.38 | 16.00 | 1.00 | 106.00 | 5.00 | 6.00 | 0.00 | 13.38 |
| 175 | Phosphotungstic acid #(T3 of tungstic acid) | 9.88 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 13.38 |
| 176 | Polyphosphoric acid | 9.88 | 9.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 13.38 |
| 177 | TEPP * #(T3) | 11.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 13.38 |
| 178 | Carbonyl fluoride T3 | 12.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 13.38 |
| 179 | Dicofol #(T3) | 9.75 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 13.25 |
| 180 | Ethylenediamine | 9.25 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 13.25 |
| 181 | N,N-Dimethylaniline #(T3) | 9.25 | 11.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 13.25 |
| 182 | o-Toluidine #(T3) | 9.25 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 13.25 |
| 183 | Phosphorus | 8.75 | 11.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 13.25 |
| 184 | Chlorosulfonic acid E3 | 10.25 | 6.00 | 0.00 | 38.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 185 | Boron tribromide T3 | 10.25 | 3.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 13.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 186 | Thionyl chloride-E3* | 7719-09-715 | 10.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 187 | Titanium tetrachloride-E3* | 7550-45-0 | 12.89 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 188 | Dichlorosilane T3 | 4109-96-0 | 75.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 189 | Ethylene T3 | 74-85-1 | 15000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 190 | Cyclohexane #(T3) | 110-82-7 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 191 | p-Phenylene diamine * #(T3) | 106-50-3 | 5.70 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 1.00 |
| 192 | 2 Aminopyridine #(I) | 504-29-0 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 193 | 2,4-D * #(T3) | 94-75-7 | 11.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 194 | Carbaryl * #(T3) | 63-25-2 | 12.15 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 195 | Collodion #(T3) | 9004-70-0 | 12.23 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 196 | Demeton * #(T3) (Systox) | 8065-48-3 | 0.95 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 197 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 528-29-0; 99-65-0; 100-25-4 | 7.27 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 198 | p-Anisidine * #(T3) | 104-94-9 | 9.93 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 199 | Pentachlorophenol * #(T3) | 87-86-5 | 0.23 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 200 | Warfarin * #(T3) | 81-81-2 | 1.60 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 201 | Dinitrogen tetroxide T3 | 10544-72-6 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 202 | Nitrogen trioxide-T3* | 10544-73-7 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 203 | Azinphosmethyl * #(T3) | 86-50-0 | 0.77 | 5.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 204 | Bismuth *T3 of BiOCl | 7440-69-9 | 47.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 205 | Mercuric nitrate | 10045-94-0 | 1.07 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 206 | Methidathion #(T3) | 950-37-8 | 32.35 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 207 | Methyl parathion #(T3) | 298-00-0 | 1.39 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 208 | 2-Diethylaminoethanol #(I) | 100-37-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 209 | Bromoxynil #(T3-as naptha solution only) | 1689-84-5 | 80.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 210 | Methylene bisphenyl isocyanate * #(E3) | 101-68-8 | 2.40 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 211 | Tetramethylethylenediamine #(T#) | 110-18-9 | 125.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 212 | Aluminum chloride, anydrous *T3 | 7446-70-0 | 91.68 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 213 | Acetic anhydride #(T3) | 108-24-7 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 214 | Benzyl chloride #(E3) | 100-44-7 | 25.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 215 | Chlorobenzene | 108-90-7 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 216 | Ethyl benzene | 100-41-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 217 | Furfuryl alcohol #(T3) | 98-00-0 | 75.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 218 | Hexone #(T3) | 108-10-1 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 219 | Isoamyl alcohol (primary and secondary) #(T3) | 123-51-3 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 220 | Isobutyl acetate #(T3) | 110-19-0 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 221 | Methyl chloroformate-T3* | 79-22-1 | 4.00 | 4.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 222 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 223 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 76-13-1 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 224 | Boron *T3 of B2O3 | 7440-42-8 | 175.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 225 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 69327-76-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 226 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 39515-41-8 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 227 | Hydrogen selenide | 7783-07-5 | 2.20 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 5.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 186 | Thionyl chloride-E3* | 10.25 | | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 187 | Titanium tetrachloride-E3* | 9.25 | 15.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 13.25 |
| 188 | Dichlorosilane T3 | 9.25 | 12.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 13.25 |
| 189 | Ethylene T3 | 6.25 | 20.00 | 2.00 | 173.00 | 5.00 | 7.00 | 0.00 | 13.25 |
| 190 | Cyclohexane #(T3) | 6.63 | 26.00 | 2.00 | 75.00 | 4.00 | 6.00 | 0.50 | 13.13 |
| 191 | p-Phenylene diamine * #(T3) | 8.13 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 13.13 |
| 192 | 2 Aminopyridine #(I) | 10.00 | 6.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 13.00 |
| 193 | 2,4-D * #(T3) | 9.00 | 15.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 194 | Carbaryl * #(T3) | 9.00 | 10.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 195 | Collodion #(T3) | 8.00 | 22.00 | 2.00 | 40.00 | 3.00 | 5.00 | 0.00 | 13.00 |
| 196 | Demeton * #(T3) (Systox) | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 13.00 |
| 197 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 10.00 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 13.00 |
| 198 | p-Anisidine * #(T3) | 10.00 | 5.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 13.00 |
| 199 | Pentachlorophenol * #(T3) | 11.00 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 13.00 |
| 200 | Warfarin * #(T3) | 10.00 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 13.00 |
| 201 | Dinitrogen tetroxide T3 | 13.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.00 |
| 202 | Nitrogen trioxide-T3* | 12.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 203 | Azinphosmethyl * #(T3) | 10.38 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 12.88 |
| 204 | Bismuth *T3 of BiOCl | 8.38 | 15.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 12.88 |
| 205 | Mercuric nitrate | 9.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 12.88 |
| 206 | Methidathion #(T3) | 8.38 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 2.50 | 12.88 |
| 207 | Methyl parathion #(T3) | 9.38 | 7.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 12.88 |
| 208 | 2-Diethylaminoethanol #(I) | 9.25 | 0.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 12.75 |
| 209 | Bromoxynil #(T3-as naptha solution only) | 9.25 | 5.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 12.75 |
| 210 | Methylene bisphenyl isocyanate * #(E3) | 8.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 12.75 |
| 211 | Tetramethylethylenediamine #(T#) | 8.25 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.50 | 12.75 |
| 212 | Aluminum chloride, anydrous *T3 | 7.75 | 10.00 | 1.00 | 99.00 | 4.00 | 5.00 | 0.00 | 12.75 |
| 213 | Acetic anhydride #(T3) | 7.63 | 19.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.00 | 12.63 |
| 214 | Benzyl chloride #(E3) | 8.63 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 12.63 |
| 215 | Chlorobenzene | 7.63 | 13.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 12.63 |
| 216 | Ethyl benzene | 6.63 | 21.00 | 2.00 | 51.00 | 4.00 | 6.00 | 0.00 | 12.63 |
| 217 | Furfuryl alcohol #(T3) | 8.63 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 12.63 |
| 218 | Hexone #(T3) | 7.63 | 17.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 12.63 |
| 219 | Isoamyl alcohol (primary and secondary) #(T3) | 7.63 | 18.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.00 | 12.63 |
| 220 | Isobutyl acetate #(T3) | 6.63 | 21.00 | 2.00 | 56.00 | 4.00 | 6.00 | 0.00 | 12.63 |
| 221 | Methyl chloroformate-T3* | 9.63 | 2.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 222 | 1,1,2,2-Tetrachloroethane #(T3) | 10.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 12.50 |
| 223 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 8.50 | 12.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 12.50 |
| 224 | Boron *T3 of B2O3 | 8.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 12.50 |
| 225 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 9.00 | 5.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.50 | 12.50 |
| 226 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 9.00 | 3.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.50 | 12.50 |
| 227 | Hydrogen selenide | 11.50 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 12.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 228 | Iron phosphate #(T3 as iron) | 10045-86-0 | 214.47 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 229 | Methamidophos | 10265-92-6 | 10.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 230 | Sodium fluoroacetate #(T3) | 62-74-8 | 0.61 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 231 | Sulfur pentafluoride #(T3) | 5714-22-7 | 1.00 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 232 | Tetrachloroethylene | 127-18-4 | 1200.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 233 | Trithion | 786-19-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 234 | Trimethylamine-E3[a] | 75-50-3 | 500.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 235 | Ethane T3 | 74-84-0 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 236 | 2,6-di-tert-butyl-p-cresol *T3 | 128-37-0 | 44.45 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 237 | 2-chloroacetophenone *IDLH | 532-27-4 | 2.38 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 238 | Acrylonitrile | 107-13-1 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 239 | Di-syston #(T3) | 298-04-4 | 6.68 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 240 | Hydroquinone * #(T3) | 123-31-9 | 11.10 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 241 | Oxydemeton-methyl #(I) | 301-12-2 | 3.97 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 242 | Styrene | 100-42-5 | 1100.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 243 | Trichloroethylene | 79-01-6 | 3800.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 244 | 4-chlorobutyronitrile (as CN) | 628-20-6 | 25.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 245 | Barium *T3 | 7440-39-3 | 22.31 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 246 | Cyclohexanol #(T3) | 108-93-0 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 247 | Dichloroethyl ether #(T3) | 111-44-4 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 248 | Dimethyl acetamide #(T3) | 127-19-5 | 300.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 249 | Ethylene chlorohydrin | 107-07-3 | 12.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 250 | Methyl (n-amyl) ketone #(T3) | 110-43-0 | 800.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 251 | Monomethyl aniline #(T3) | 100-61-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 252 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 88-72-2; 99-08-1; 99-99-0 | 60.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 253 | Perchloromethyl mercaptan | 594-42-3 | 0.90 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 254 | Phenylhydrazine #(T3) | 100-63-0 | 15.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 255 | Sodium azide (#T3) | 26628-22-8 | 4.69 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 256 | Methylphenyldichlorosilane-T3[a] | 149-74-6 | 2.56 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 257 | Sulfuryl chloride-T3[a] | 7791-25-5 | 15.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 258 | Acetonitrile | 75-05-8 | 670.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 259 | Chloropicrin | 76-06-2 | 1.40 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 260 | n-Amyl acetate #(T3) | 628-63-7 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 261 | n-Propyl alcohol #(T3) | 71-23-8 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 262 | Tetrahydrofuran #(T3) | 109-99-9 | 5000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 263 | Chlorine pentafluoride T3 | 13637-63-3 | 60.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 264 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 76-11-9 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 265 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 76-12-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 266 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 118-52-5 | 62.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 267 | 2-chlorobenzoyl Chloride | 609-65-4 | 1.00 | 5.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 268 | Chloroform-D | 865-49-6 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 269 | Cumene | 98-82-8 | 730.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 228 | Iron phosphate #(T3 as iron) | 8.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 2.50 | 12.50 |
| 229 | Methamidophos | 9.00 | 9.00 | 0.00 | 45.00 | 3.00 | 3.00 | 0.50 | 12.50 |
| 230 | Sodium fluoroacetate #(T3) | 11.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 12.50 |
| 231 | Sulfur pentafluoride #(T3) | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 |
| 232 | Tetrachloroethylene | 8.50 | 17.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 12.50 |
| 233 | Trithion | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 |
| 234 | Trimethylamine-E3[a] | 9.50 | 8.00 | 0.00 | 41.00 | 3.00 | 3.00 | 0.00 | 12.50 |
| 235 | Ethane T3 | 7.50 | 28.00 | 2.00 | 33.00 | 3.00 | 5.00 | 0.00 | 12.50 |
| 236 | 2,6-di-tert-butyl-p-cresol *T3 | 8.38 | 13.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 237 | 2-chloroacetophenone *IDLH | 9.38 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 12.38 |
| 238 | Acrylonitrile | 7.38 | 16.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 12.38 |
| 239 | Di-syston #(T3) | 10.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 12.38 |
| 240 | Hydroquinone * #(T3) | 8.38 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 241 | Oxydemeton-methyl #(I) | 10.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 12.38 |
| 242 | Styrene | 5.38 | 28.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.00 | 12.38 |
| 243 | Trichloroethylene | 6.88 | 17.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.50 | 12.38 |
| 244 | 4-chlorobutyronitrile (as CN) | 9.25 | 4.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 245 | Barium *T3 | 7.75 | 11.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.50 | 12.25 |
| 246 | Cyclohexanol #(T3) | 8.25 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 12.25 |
| 247 | Dichloroethyl ether #(T3) | 9.25 | 4.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 248 | Dimethyl acetamide #(T3) | 8.25 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 12.25 |
| 249 | Ethylene chlorohydrin | 9.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 250 | Methyl (n-amyl) ketone #(T3) | 8.25 | 11.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 12.25 |
| 251 | Monomethyl aniline #(T3) | 9.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 252 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 9.25 | 7.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 253 | Perchloromethyl mercaptan | 11.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 12.25 |
| 254 | Phenylhydrazine #(T3) | 9.25 | 8.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 255 | Sodium azide (#T3) | 8.75 | 8.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.50 | 12.25 |
| 256 | Methylphenyldichlorosilane-T3[a] | 10.25 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 12.25 |
| 257 | Sulfuryl chloride-T3[a] | 9.25 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 12.25 |
| 258 | Acetonitrile | 7.63 | 19.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 12.13 |
| 259 | Chloropicrin | 9.63 | 3.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 12.13 |
| 260 | n-Amyl acetate #(T3) | 7.63 | 14.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 12.13 |
| 261 | n-Propyl alcohol #(T3) | 7.63 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 12.13 |
| 262 | Tetrahydrofuran #(T3) | 5.63 | 21.00 | 2.00 | 65.00 | 4.00 | 6.00 | 0.50 | 12.13 |
| 263 | Chlorine pentafluoride T3 | 11.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.13 |
| 264 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 11.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 265 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 266 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 9.00 | 3.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 12.00 |
| 267 | 2-chlorobenzoyl Chloride | 8.50 | 5.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 12.00 |
| 268 | Chloroform-D | 9.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 12.00 |
| 269 | Cumene | 7.00 | 20.00 | 2.00 | 39.00 | 3.00 | 5.00 | 0.00 | 12.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 270 | Dichlorotetrafluoroethane #(T3) | 76-14-2 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 271 | Difethialone (T3 based on warfarin) | 104653-34-1 | 0.67 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 272 | Dinitrocresol * #(T3) | 534-52-1 | 0.62 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 273 | Endrin * #(T3) | 72-20-8 | 0.13 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 274 | EPN * #(T3) | 2104-64-5 | 0.38 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 275 | p-Nitrochlorobenzene * #(T3) | 100-00-5 | 15.52 | 3.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 276 | Profenofos #(I) | 41198-08-7 | 1600.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 277 | Thallium sulfate #(T3 of Tl) | 7446-18-6 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 278 | Trifluorobromomethane #(T3) | 75-63-8 | 40000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 279 | Nitrogen mustard hydrochloride-T3* | 55-86-7 | 0.51 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 280 | Iron, pentacarbonyl- T3 | 13463-40-6 | 0.18 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 281 | Acetone cyanohydrin, stabilized *T-3 | 75-86-5 | 15.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 282 | Acetyl Bromide *T3 | 506-96-7 | 20.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 283 | 1,1,2-Trichloroethane #(T3) | 79-00-5 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 284 | alpha-Chloroacetophenone * #(I) | 532-27-4 | 2.37 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 285 | Bifenthrin Tox est. on Pyr. | 82657-04-3 | 20.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 286 | Biphenyl * #(T3) | 92-52-4 | 15.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 287 | guanidine hydrochloride | 50-01-1 | 51.28 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 288 | Mancozeb | 8018-01-7 | 146.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 289 | Methyl mercaptan | 74-93-1 | 68.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 290 | Phenamiphos #(T3) | 22224-92-6 | 3.22 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 291 | Thiophanate methyl #(T3 of carbamate fungicides) | 23564-05-8 | 11.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 292 | Triethanolamine-T3* | 102-71-6 | 81.94 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 293 | Antimony Pentafluoride T3 | 7783-70-2 | 8.46 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 294 | 1-methyl imidazole LD50 | 616-47-7 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 295 | 2-thiophenecarbonitrile (as CN) | 1003-31-2 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 296 | Bromobenzene #(T3) | 108-86-1 | 350.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 297 | Camphor (synthetic) * #(T3) | 76-22-2 | 32.11 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 298 | Phosphorus pentachloride * #(T3) | 10026-13-8 | 8.22 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 299 | Quinone #(T3) | 106-51-4 | 22.60 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 300 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 70788-37-3 | 70.99 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 301 | Sulfur trioxide-E3* | 7446-11-9 | 9.16 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 302 | Potassium chlorate | 3811-04-9 | 69.83 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 303 | Diborane | 19287-45-7 | 3.70 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 304 | Diethylamine #(T3) | 109-89-7 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 305 | Isoamyl acetate #(T3) | 123-92-2 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 306 | Methyl Cellosolve (r) #(I) | 109-86-4 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 307 | N-Ethylmorpholine #(I) | 100-74-3 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 308 | n-Heptane #(T3) | 142-82-5 | 750.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 309 | n-Hexane | 110-54-3 | 8600.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 310 | Nitroglycerin #(T3) | 55-63-0 | 8.07 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 311 | Pyridine #(T3) | 110-86-1 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 312 | Sulfur monochloride | 10025-67-9 | 15.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 313 | Triethylamine #(T3) | 121-44-8 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 314 | Cyclohexylamine T3 | 108-91-8 | 30.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 270 | Dichlorotetrafluoroethane #(T3) | 10.00 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 271 | Difethialone (T3 based on warfarin) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 272 | Dinitrocresol * #(T3) | 11.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 273 | Endrin * #(T3) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 274 | EPN * #(T3) | 11.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 275 | p-Nitrochlorobenzene * #(T3) | 6.50 | 6.00 | 0.00 | 25.00 | 3.00 | 3.00 | 2.50 | 12.00 |
| 276 | Profenofos #(I) | 8.50 | 4.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 12.00 |
| 277 | Thallium sulfate #(T3 of Tl) | 10.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 278 | Trifluorobromomethane #(T3) | 10.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 279 | Nitrogen mustard hydrochloride-T3* | 11.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 280 | Iron, pentacarbonyl- T3 | 10.00 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 281 | Acetone cyanohydrin, stabilized *T-3 | 8.00 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 282 | Acetyl Bromide *T3 | 8.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 283 | 1,1,2-Trichloroethane #(T3) | 9.88 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 11.88 |
| 284 | alpha-Chloroacetophenone * #(I) | 9.38 | 3.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 11.88 |
| 285 | Bifenthrin Tox est. on Pyr. | 8.38 | 5.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 11.88 |
| 286 | Biphenyl * #(T3) | 8.38 | 7.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 11.88 |
| 287 | guanidine hydrochloride | 8.38 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 11.88 |
| 288 | Mancozeb | 7.38 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 11.88 |
| 289 | Methyl mercaptan | 9.88 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 11.88 |
| 290 | Phenamiphos #(T3) | 9.38 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 11.88 |
| 291 | Thiophanate methyl #(T3 of carbamate fungicides) | 8.38 | 8.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.50 | 11.88 |
| 292 | Triethanolamine-T3* | 9.88 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.88 |
| 293 | Antimony Pentafluoride T3 | 10.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 11.88 |
| 294 | 1-methyl imidazole LD50 | 8.25 | 8.00 | 0.00 | 22.00 | 3.00 | 3.00 | 0.50 | 11.75 |
| 295 | 2-thiophenecarbonitrile (as CN) | 9.25 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 11.75 |
| 296 | Bromobenzene #(T3) | 8.25 | 8.00 | 0.00 | 34.00 | 3.00 | 3.00 | 0.50 | 11.75 |
| 297 | Camphor (synthetic) * #(T3) | 7.75 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 11.75 |
| 298 | Phosphorus pentachloride * #(T3) | 8.75 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 11.75 |
| 299 | Quinone #(T3) | 7.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 11.75 |
| 300 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 9.25 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 11.75 |
| 301 | Sulfur trioxide-E3* | 8.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 11.75 |
| 302 | Potassium chlorate | 7.75 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 11.75 |
| 303 | Diborane | 9.63 | 7.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 304 | Diethylamine #(T3) | 7.63 | 16.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 305 | Isoamyl acetate #(T3) | 7.63 | 13.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 306 | Methyl Cellosolve (r) #(I) | 7.63 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 307 | N-Ethylmorpholine #(I) | 8.63 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 11.63 |
| 308 | n-Heptane #(T3) | 7.63 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 309 | n-Hexane | 5.63 | 23.00 | 2.00 | 78.00 | 4.00 | 6.00 | 0.00 | 11.63 |
| 310 | Nitroglycerin #(T3) | 7.13 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 11.63 |
| 311 | Pyridine #(T3) | 7.63 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 312 | Sulfur monochloride | 8.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 11.63 |
| 313 | Triethylamine #(T3) | 7.63 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 314 | Cyclohexylamine T3 | 8.63 | 8.00 | 0.00 | 32.00 | 3.00 | 3.00 | 0.00 | 11.63 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 315 | Propyl chloroformate-T3* | 109-61-5 | 60.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 316 | Piperidine-T3* | 110-89-4 | 250.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 317 | Aldicarb *T# | 116-06-3 | 12.87 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 318 | Antimony oxide *T3 | 1309-64-4 | 6.43 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 319 | Crag (r) herbicide #(T3) | 136-78-7 | 39.55 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 320 | Cyanide | 57-12-5 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 321 | Dioxane | 123-91-1 | 760.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 322 | Methyl chloride | 74-87-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 323 | Pirimicarb #(T3 as carbamate ester) | 5947-49-9 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 324 | Thallium #(T3) | 7440-28-0 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 325 | 1-Butene T3 | 106-98-9 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 326 | Epichlorohydrin #(I) | 106-89-8 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 327 | Ethyl ether #(T3) | 60-29-7 | 1900.00 | 1.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 328 | Halothane (T:V) | 151-67-7 | 50.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 329 | Triphenyl phosphate* | 115-86-6 | 37.47 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 330 | Acrylyl Chloride *T3 | 814-68-6 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 331 | Chloromethyl methyl ether E3 | 107-30-2 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 332 | 2-Butoxyethanol #(T3) | 111-76-2 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 333 | 2-Ethoxyethanol #(T3) | 110-80-5 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 334 | 2-Ethoxyethyl acetate #(T3) | 111-15-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 335 | Allyl glycidyl ether #(I) | 106-92-3 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 336 | Chloroacetaldehyde | 107-20-0 | 9.90 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 337 | Diacetone alcohol #(T3) | 123-42-2 | 1800.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 338 | Dibutyl phosphate #(T3) | 107-66-4 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 339 | Diisobutyl ketone #(T3) | 108-83-8 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 340 | Methyl isobutyl carbinol #(I) | 108-11-2 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 341 | n-Butyl glycidyl ether #(T3) | 2426-08-6 | 250.00 | 2.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 342 | Nitrogen trifluoride #(T3) | 7783-54-2 | 800.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 343 | o-Dichlorobenzene #(T3) | 95-50-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 344 | Oxygen difluoride | 7783-41-7 | 2.50 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 345 | p-tert-Butyltoluene #(I) | 98-51-1 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 346 | Triethyl phosphite-T3* | 122-52-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 347 | Iodine pentafluoride R | 7783-66-6 | 98.07 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 348 | Ethyl bromide #(T3) | 74-96-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 349 | Phosphorus pentasulfide * #(T3) | 1314-80-3 | 27.50 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 350 | Thioglycol TEEL-3 | 60-24-2 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 351 | Allyl alcohol | 107-18-6 | 20.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 352 | Allyl chloride | 107-05-1 | 140.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 353 | Carbon disulfide | 75-15-0 | 480.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 354 | Dichloromonofluoromethane #(T3) | 75-43-4 | 5000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 355 | Ethyl silicate #(E3) | 78-10-4 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 356 | Ferbam * #(I) | 14484-64-1 | 15.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 357 | Graphite #(T3) | 7782-42-5 | 1017.90 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 358 | Heptachlor * #(T3) | 76-44-8 | 2.29 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 359 | Hexachloroethane #(T3) | 67-72-1 | 300.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 360 | Hexachloronaphthalene * #(T3) | 1335-87-1 | 0.15 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 361 | Isopropylamine #(T3) | 75-31-0 | 750.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 362 | n-Pentane #(T3) | 109-66-0 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 315 | Propyl chloroformate-T3* | 8.63 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 11.63 |
| 316 | Piperidine-T3* | 7.63 | 11.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 317 | Aldicarb *T# | 9.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 11.50 |
| 318 | Antimony oxide *T3 | 10.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 11.50 |
| 319 | Crag (r) herbicide #(T3) | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 11.50 |
| 320 | Cyanide | 10.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 11.50 |
| 321 | Dioxane | 7.00 | 12.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 11.50 |
| 322 | Methyl chloride | 7.50 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 11.50 |
| 323 | Pirimicarb #(T3 as carbamate ester) | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 11.50 |
| 324 | Thallium #(T3) | 10.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.50 | 11.50 |
| 325 | 1-Butene T3 | 7.50 | 15.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 11.50 |
| 326 | Epichlorohydrin #(I) | 7.38 | 15.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.00 | 11.38 |
| 327 | Ethyl ether #(T3) | 5.38 | 20.00 | 2.00 | 57.00 | 4.00 | 6.00 | 0.00 | 11.38 |
| 328 | Halothane (T:V) | 9.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 11.38 |
| 329 | Triphenyl phosphate* | 8.38 | 5.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 11.38 |
| 330 | Acrylyl Chloride *T3 | 8.38 | 5.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 11.38 |
| 331 | Chloromethyl methyl ether E3 | 8.38 | 8.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 11.38 |
| 332 | 2-Butoxyethanol #(T3) | 8.25 | 1.00 | 0.00 | 43.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 333 | 2-Ethoxyethanol #(T3) | 8.25 | 1.00 | 0.00 | 31.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 334 | 2-Ethoxyethyl acetate #(T3) | 8.25 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 335 | Allyl glycidyl ether #(I) | 9.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.25 |
| 336 | Chloroacetaldehyde | 10.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 337 | Diacetone alcohol #(T3) | 7.25 | 11.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 11.25 |
| 338 | Dibutyl phosphate #(T3) | 9.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.25 |
| 339 | Diisobutyl ketone #(T3) | 8.25 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 340 | Methyl isobutyl carbinol #(I) | 8.25 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 341 | n-Butyl glycidyl ether #(T3) | 8.25 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 342 | Nitrogen trifluoride #(T3) | 8.25 | 7.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 343 | o-Dichlorobenzene #(T3) | 8.25 | 9.00 | 0.00 | 37.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 344 | Oxygen difluoride | 10.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 345 | p-tert-Butyltoluene #(I) | 9.25 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.25 |
| 346 | Triethyl phosphite-T3* | 8.25 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 11.25 |
| 347 | Iodine pentafluoride R | 9.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.25 |
| 348 | Ethyl bromide #(T3) | 6.63 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 11.13 |
| 349 | Phosphorus pentasulfide * #(T3) | 7.13 | 12.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 11.13 |
| 350 | Thioglycol TEEL-3 | 7.63 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.50 | 11.13 |
| 351 | Allyl alcohol | 8.00 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 352 | Allyl chloride | 7.00 | 11.00 | 1.00 | 19.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 353 | Carbon disulfide | 7.00 | 16.00 | 1.00 | 45.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 354 | Dichloromonofluoromethane #(T3) | 10.00 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 355 | Ethyl silicate #(E3) | 7.00 | 10.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 356 | Ferbam * #(I) | 9.00 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 357 | Graphite #(T3) | 7.00 | 16.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 358 | Heptachlor * #(T3) | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 359 | Hexachloroethane #(T3) | 8.00 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 360 | Hexachloronaphthalene * #(T3) | 11.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.00 |
| 361 | Isopropylamine #(T3) | 7.00 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 362 | n-Pentane #(T3) | 6.00 | 20.00 | 2.00 | 47.00 | 3.00 | 5.00 | 0.00 | 11.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 363 | Chloromethyl ether E3 | 542-88-1 | 0.50 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 364 | Propionitrile-T3* | 107-12-0 | 37.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 365 | Phenyltrichlorosilane-T3* | 98-13-5 | 4.62 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 366 | Chlorobromomethane #(T3) | 74-97-5 | 2000.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 367 | Methyl chloroform | 71-55-6 | 4200.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 368 | Perchloryl fluoride #(T3) | 7616-94-6 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 5.00 |
| 369 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 126-33-0 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 370 | Xylidine #(T3) | 1300-73-8 | 50.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 371 | Arsenic trichloride T3 | 7784-34-1 | 12.50 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 372 | Cyanogen T3 | 460-19-5 | 15.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 373 | Carbonyl sulfide T3 | 463-58-1 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 374 | Vinyl chloride-T3* | 75-01-4 | 20000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 375 | Methyl ether-T3* | 115-10-6 | 60000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 376 | Difluoroethane T3 | 75-37-6 | 75000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 377 | Sodium hydrosulfite-T3* | 7775-14-6 | 35.11 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 378 | Acrolein | 107-02-8 | 1.40 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 379 | p-Dichlorobenzene #(T3) | 106-46-7 | 150.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 380 | Propylene oxide | 75-56-9 | 870.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 381 | Sodium borohydride #(T3) | 16940-66-2 | 4.85 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 382 | Potassium perchlorate-T3* | 7778-74-7 | 88.24 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 383 | 1,2,3-Trichloropropane #(T3) | 96-18-4 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 384 | 2-Butanone | 78-93-3 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 385 | Chlorodiphenyl (42% chlorine)* #(T3) | 53469-21-9 | 0.47 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 386 | Diazomethane #(T3) | 334-88-3 | 2.00 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 5.00 |
| 387 | Diisopropylamine #(T3) | 108-18-9 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 388 | Isophorone #(T3) | 78-59-1 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 389 | Isopropyl acetate #(T3) | 108-21-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 390 | n-Butylamine #(T3) | 109-73-9 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 391 | n-Propyl acetate #(I) | 109-60-4 | 1700.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 392 | Octane #(T3) | 111-65-9 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 393 | Phenyl glycidyl ether #(I) | 122-60-1 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 394 | Propylene dichloride #(T3) | 78-87-5 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 395 | sec-Butyl alcohol #(T3) | 78-92-2 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 396 | tert-Butyl alcohol #(T3) | 75-65-0 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 397 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 78-53-5 | 0.30 | 5.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 398 | Ethyl phosphonothioic dichloride R | 993-43-1 | 7.50 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 399 | Fluorosulfonic acid T3 | 7789-21-1 | 7.33 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 400 | Acrylamide * #(T3) | 79-06-1 | 20.64 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 401 | Aldrin * #(T3) | 309-00-2 | 1.68 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 402 | DDT * #(T3) | 50-29-3 | 34.49 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 403 | Dieldrin * #(T3) | 60-57-1 | 3.21 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 404 | Ethyl chloride #(T3) | 75-00-3 | 3800.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 405 | Mercuric Salicylate #(T3 of Hg) | 5970-32-1 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 406 | Tetraethyl lead #(T3) | 78-00-2 | 4.51 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 363 | Chloromethyl ether E3 | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 364 | Propionitrile-T3* | 8.00 | 3.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 365 | Phenyltrichlorosilane-T3ª | 9.00 | 1.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 366 | Chlorobromomethane #(T3) | 7.88 | 7.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 10.88 |
| 367 | Methyl chloroform | 6.88 | 14.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 368 | Perchloryl fluoride #(T3) | 9.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.88 |
| 369 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 8.88 | 5.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 10.88 |
| 370 | Xylidine #(T3) | 9.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 10.88 |
| 371 | Arsenic trichloride T3 | 9.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 10.88 |
| 372 | Cyanogen T3 | 9.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.88 |
| 373 | Carbonyl sulfide T3 | 8.88 | 2.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 10.88 |
| 374 | Vinyl chloride-T3* | 6.88 | 6.00 | 0.00 | 63.00 | 4.00 | 4.00 | 0.00 | 10.88 |
| 375 | Methyl ether-T3* | 6.88 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 376 | Difluoroethane T3 | 6.88 | 14.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 377 | Sodium hydrosulfite-T3* | 5.88 | 20.00 | 2.00 | 48.00 | 3.00 | 5.00 | 0.00 | 10.88 |
| 378 | Acrolein | 7.75 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 10.75 |
| 379 | p-Dichlorobenzene #(T3) | 6.75 | 10.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 10.75 |
| 380 | Propylene oxide | 5.75 | 16.00 | 1.00 | 54.00 | 4.00 | 5.00 | 0.00 | 10.75 |
| 381 | Sodium borohydride #(T3) | 6.25 | 13.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 10.75 |
| 382 | Potassium perchlorate-T3* | 7.75 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 10.75 |
| 383 | 1,2,3-Trichloropropane #(T3) | 8.63 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 10.63 |
| 384 | 2-Butanone | 5.63 | 18.00 | 1.00 | 63.00 | 4.00 | 5.00 | 0.00 | 10.63 |
| 385 | Chlorodiphenyl (42% chlorine)* #(T3) | 10.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 |
| 386 | Diazomethane #(T3) | 9.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 387 | Diisopropylamine #(T3) | 7.63 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 388 | Isophorone #(T3) | 7.63 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 389 | Isopropyl acetate #(T3) | 6.63 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 10.63 |
| 390 | n-Butylamine #(T3) | 7.63 | 8.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 391 | n-Propyl acetate #(I) | 6.63 | 12.00 | 1.00 | 31.00 | 3.00 | 4.00 | 0.00 | 10.63 |
| 392 | Octane #(T3) | 7.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 393 | Phenyl glycidyl ether #(I) | 8.63 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 10.63 |
| 394 | Propylene dichloride #(T3) | 7.63 | 9.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 395 | sec-Butyl alcohol #(T3) | 6.63 | 12.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 10.63 |
| 396 | tert-Butyl alcohol #(T3) | 6.63 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 10.63 |
| 397 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 10.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 |
| 398 | Ethyl phosphonothioic dichloride R | 9.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 399 | Fluorosulfonic acid T3 | 9.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 400 | Acrylamide * #(T3) | 6.50 | 14.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 10.50 |
| 401 | Aldrin * #(T3) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 10.50 |
| 402 | DDT * #(T3) | 9.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 10.50 |
| 403 | Dieldrin * #(T3) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 10.50 |
| 404 | Ethyl chloride #(T3) | 7.50 | 8.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 10.50 |
| 405 | Mercuric Salicylate #(T3 of Hg) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 10.50 |
| 406 | Tetraethyl lead #(T3) | 9.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 10.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 407 | Toxaphene #(T3 based on Keplinger 1963 study) | 8001-35-2 | 29.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 408 | Ammonium sulfamate * #(T3) | 7773-06-0 | 107.10 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 409 | Diketene | 674-82-8 | 2.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 410 | Ethyl acrylate | 140-88-5 | 240.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 411 | Methyl acrylate #(T3) | 96-33-3 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 412 | Methyl hydrazine | 60-34-4 | 2.70 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 413 | Methyl isocyanate | 624-83-9 | 0.20 | 5.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 414 | Methyl methacrylate | 80-62-6 | 570.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 415 | Methyltrichlorosilane-E3* | 75-79-6 | 15.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 416 | Dimethyldichlorosilane T3 | 75-78-5 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 417 | Acetyl Chloride *T3 | 75-36-5 | 125.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 418 | Vinyl acetate monomer-E3* | 108-05-4 | 500.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 419 | 1,2-dimethylimidazole LD50 | 1739-84-0 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 420 | 5-Methyl 3-heptanone #(I) | 541-85-5 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 421 | Chlordane * #(T3) | 57-74-9 | 5.97 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 422 | Mercury oxycyanide as Hg | 1335-31-5 | 1.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 423 | Stibine | 7803-52-3 | 9.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 424 | tert-Butyl chromate #(I) | 1189-85-1 | 1.59 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 425 | Trypan blue #(T3) | 72-57-1 | 14.02 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 426 | Butyltrichlorosilane SC | 7521-80-4 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 427 | Octyltrichlorosilane-A3* (60min | 5283-66-9 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 428 | o-Chlorobenzylidene malononitrile * #(T3) | 2698-41-1 | 0.26 | 5.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 1.00 |
| 429 | p-Nitroaniline * #(T3) | 100-01-6 | 53.10 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 430 | 2,4,5-T * #(T3) | 93-76-5 | 23.92 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 431 | ANTU * #(T3) | 86-88-4 | 12.10 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 432 | Benzoyl peroxide* #(T3) | 94-36-0 | 50.47 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 433 | Bromodiolone (Rat Inh. LC50) | 54149-17-6 | 23.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 434 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 300-76-5 | 12.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 435 | Isopropyl ether #(T3) | 108-20-3 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 436 | Methoxychlor * #(T3) | 72-43-5 | 35.37 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 437 | Pindone * #(I) | 83-26-1 | 10.62 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 438 | Rotenone * #(T3) | 83-79-4 | 30.99 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 439 | Tetryl * #(T3) | 479-45-8 | 42.57 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 440 | Allylamine *T3 | 107-11-9 | 18.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 441 | Trimethyl phosphite-T3* | 121-45-9 | 750.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 442 | Ethyltrichlorosilane T3 | 115-21-9 | 6.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 443 | Boron trifluoride compound with methyl ether (1:1) T3 | 353-42-4 | 7.50 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 444 | 1,1-Dimethylhydrazine | 57-14-7 | 11.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 445 | Aqua Regia *T3 | 8007-56-5 | 35.01 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 446 | Hexachlorobenzene | 118-74-1 | 17.17 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 447 | Mercuric arsenate #(T3 of Hg) | 7784-37-4 | 1.08 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 448 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8003-34-7 | 326.87 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 407 | Toxaphene #(T3 based on Keplinger 1963 study) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 10.50 |
| 408 | Ammonium sulfamate * #(T3) | 7.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 10.38 |
| 409 | Diketene | 8.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 10.38 |
| 410 | Ethyl acrylate | 6.38 | 16.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.00 | 10.38 |
| 411 | Methyl acrylate #(T3) | 6.38 | 16.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 10.38 |
| 412 | Methyl hydrazine | 8.38 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 10.38 |
| 413 | Methyl isocyanate | 9.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.38 |
| 414 | Methyl methacrylate | 6.38 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 10.38 |
| 415 | Methyltrichlorosilane-E3* | 7.38 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 10.38 |
| 416 | Dimethyldichlorosilane T3 | 7.38 | 4.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 10.38 |
| 417 | Acetyl Chloride *T3 | 6.38 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 10.38 |
| 418 | Vinyl acetate monomer-E3* | 6.38 | 4.00 | 0.00 | 53.00 | 4.00 | 4.00 | 0.00 | 10.38 |
| 419 | 1,2-dimethylimidazole LD50 | 6.75 | 5.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 10.25 |
| 420 | 5-Methyl 3-heptanone #(I) | 9.25 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.25 |
| 421 | Chlordane * #(T3) | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 422 | Mercury oxycyanide as Hg | 8.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 10.25 |
| 423 | Stibine | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 424 | tert-Butyl chromate #(I) | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 425 | Trypan blue #(T3) | 7.75 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 10.25 |
| 426 | Butyltrichlorosilane SC | 9.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 10.25 |
| 427 | Octyltrichlorosilane-A3* (60min | 9.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 10.25 |
| 428 | o-Chlorobenzylidene malononitrile * #(T3) | 9.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.13 |
| 429 | p-Nitroaniline * #(T3) | 7.13 | 5.00 | 0.00 | 47.00 | 3.00 | 3.00 | 0.00 | 10.13 |
| 430 | 2,4,5-T * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 431 | ANTU * #(T3) | 9.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 432 | Benzoyl peroxide* #(T3) | 4.00 | 22.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 10.00 |
| 433 | Bromodiolone (Rat Inh. LC50) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 434 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 9.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 435 | Isopropyl ether #(T3) | 6.00 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 10.00 |
| 436 | Methoxychlor * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 437 | Pindone * #(I) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 438 | Rotenone * #(T3) | 9.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 439 | Tetryl * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 440 | Allylamine *T3 | 8.00 | 5.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 10.00 |
| 441 | Trimethyl phosphite-T3* | 7.00 | 4.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 10.00 |
| 442 | Ethyltrichlorosilane T3 | 9.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 443 | Boron trifluoride compound with methyl ether (1:1) T3 | 9.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 444 | 1,1-Dimethylhydrazine | 7.38 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 9.88 |
| 445 | Aqua Regia *T3 | 9.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.88 |
| 446 | Hexachlorobenzene | 8.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 9.88 |
| 447 | Mercuric arsenate #(T3 of Hg) | 9.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 9.88 |
| 448 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 9.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 449 | Thiodiglycol-Alfa MSDS*B71 | 111-48-8 | 4150.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 450 | 2-methylpropene-T3* | 115-11-7 | 100000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 451 | Trinitrophenol-T3* | 88-89-1 | 8.00 | 4.00 | 4.00 | 0.00 | 1.00 | 3.75 | 1.88 | 1.00 |
| 452 | Acetaldehyde | 75-07-0 | 840.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 453 | Dipropylene glycol methyl ether #(T3) | 34590-94-8 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 454 | Isoflurane #(IDLH of halgenated ethers-general) | 26675-46-7 | 2000.00 | 1.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 455 | Methyl Cellosolve (r) acetate #(I) | 110-49-6 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 456 | Calcium phosphide SC | 1305-99-3 | 1.80 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 457 | Trichlorosilane-E3* | 10025-78-2 | 25.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 458 | Aluminum bromide, anydrous as AlCl3 | 7727-15-3 | 44.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 459 | Nickel Carbonyl-T3* | 13463-39-3 | 0.16 | 5.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 460 | 2-Pentanone #(T3) | 107-87-9 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 461 | Cyclohexene #(T3) | 110-83-8 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 462 | Ethyl formate #(I) | 109-94-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 463 | Glycidol #(I) | 556-52-5 | 150.00 | 2.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 464 | Hydrazine | 302-01-2 | 35.00 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 465 | Methyl acetate #(I) | 79-20-9 | 3100.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 466 | Methylcyclohexane #(T3) | 108-87-2 | 1200.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 467 | n-Butyl mercaptan #(T3) | 109-79-5 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 468 | Turpentine #(T3) | 8006-64-2 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 469 | Isobutyronitrile-E3* | 78-82-0 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 470 | Methyl thiocyanate-T3* | 1556-64-9 | 28.40 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 471 | Dodecyltrichlorosilane Sc | 4484-72-41 | 33.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 472 | Bromine pentafluoride T3 | 7789-30-2 | 35.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 473 | Bromine trifluoride T3 | 7787-71-5 | 89.30 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 474 | Germane T3 | 7782-65-2 | 150.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 475 | Silane-T3* | 7803-62-5 | 4000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 476 | Azinphos-ethyl *T3 | 2642-71-9 | 10.63 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 477 | Difluorodibromomethane #(I) | 75-61-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 478 | Dinitrotoluene * #(T3) | 25321-14-6 | 6.70 | 4.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 479 | 2-Butene T3 | 107-01-7 | 300.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 480 | 2-Butene-trans T3 | 624-64-6 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 481 | 2-Butene-cis T3 | 590-18-1 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 482 | Chlorinated camphene * #(T3) | 8001-35-2 | 11.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 483 | Crotonaldehyde | 4170-30-3 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 484 | Terphenyls * #(I) | 92-06-8; 84-15-1; 92-94-4 | 53.08 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 485 | Tetranitromethane | 509-14-8 | 1.70 | 4.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 486 | Tetramethylsilane-T3* | 75-76-3 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 487 | Trimethylchlorosilane-E3* | 75-77-44 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 488 | Cyclopentadiene #(I) | 542-92-7 | 750.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 489 | Ethyl butyl ketone #(T3) | 106-35-4 | 1000.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 490 | Methylcyclohexanol #(I) | 25639-42-3 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 491 | o-Methylcyclohexanone #(T3) | 583-60-8 | 600.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 492 | Aluminum phosphide *T3 | 20859-73-8 | 8.44 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 493 | beta-Chloroprene #(T3) | 126-99-8 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 449 | Thiodiglycol-Alfa MSDS*B71 | 6.88 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 9.88 |
| 450 | 2-methylpropene-T3* | 6.88 | 3.00 | 0.00 | 40.00 | 3.00 | 3.00 | 0.00 | 9.88 |
| 451 | Trinitrophenol-T3* | 6.88 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 9.88 |
| 452 | Acetaldehyde | 5.75 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 9.75 |
| 453 | Dipropylene glycol methyl ether #(T3) | 6.75 | 7.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 454 | Isoflurane #(IDLH of halgenated ethers-general) | 7.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.50 | 9.75 |
| 455 | Methyl Cellosolve (r) acetate #(I) | 6.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 456 | Calcium phosphide SC | 8.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.75 |
| 457 | Trichlorosilane-E3* | 6.75 | 4.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 458 | Aluminum bromide, anydrous as AlCl3 | 7.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.75 |
| 459 | Nickel Carbonyl-T3* | 8.75 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.75 |
| 460 | 2-Pentanone #(T3) | 6.63 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 9.63 |
| 461 | Cyclohexene #(T3) | 6.63 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 9.63 |
| 462 | Ethyl formate #(I) | 6.63 | 6.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 9.63 |
| 463 | Glycidol #(I) | 7.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.63 |
| 464 | Hydrazine | 6.13 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 9.63 |
| 465 | Methyl acetate #(I) | 5.63 | 15.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 9.63 |
| 466 | Methylcyclohexane #(T3) | 6.63 | 9.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 9.63 |
| 467 | n-Butyl mercaptan #(T3) | 7.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.63 |
| 468 | Turpentine #(T3) | 7.63 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 9.63 |
| 469 | Isobutyronitrile-E3* | 7.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.63 |
| 470 | Methyl thiocyanate-T3* | 8.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.63 |
| 471 | Dodecyltrichlorosilane Sc | 8.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.63 |
| 472 | Bromine pentafluoride T3 | 8.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.63 |
| 473 | Bromine trifluoride T3 | 8.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.63 |
| 474 | Germane T3 | 7.63 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.63 |
| 475 | Silane-T3* | 5.63 | 16.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 9.63 |
| 476 | Azinphos-ethyl *T3 | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 9.50 |
| 477 | Difluorodibromomethane #(I) | 8.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.50 |
| 478 | Dinitrotoluene * #(T3) | 7.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 479 | 2-Butene T3 | 9.50 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.50 |
| 480 | 2-Butene-trans T3 | 7.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 481 | 2-Butene-cis T3 | 7.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 482 | Chlorinated camphene * #(T3) | 8.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 483 | Crotonaldehyde | 7.38 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 9.38 |
| 484 | Terphenyls * #(I) | 8.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 485 | Tetranitromethane | 8.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 486 | Tetramethylsilane-T3* | 6.38 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 9.38 |
| 487 | Trimethylchlorosilane-E3* | 6.38 | | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 9.38 |
| 488 | Cyclopentadiene #(I) | 8.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.25 |
| 489 | Ethyl butyl ketone #(T3) | 8.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 9.25 |
| 490 | Methylcyclohexanol #(I) | 8.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.25 |
| 491 | o-Methylcyclohexanone #(T3) | 8.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.25 |
| 492 | Aluminum phosphide *T3 | 6.25 | 2.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 9.25 |
| 493 | beta-Chloroprene #(T3) | 7.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 494 | Ethylene glycol dinitrate #(I) | 628-96-6 | 12.06 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 495 | Lithium #(T3) | 7439-93-2 | 1409.20 | 1.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 496 | Methylal #(T3) | 109-87-5 | 2200.00 | 0.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 497 | Ronnel #(I) | 299-84-3 | 22.81 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 498 | tert-Butyl acetate #(T3) | 540-88-5 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 499 | Isopentane-T3* | 78-78-4 | 20000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 500 | Propyltrichlorosilane-A3* (60 min | 141-57-1 | 33.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 501 | Hexyltrichlorosilane T3 | 928-65-4 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 502 | Octadecyltrichlorosilane-A3* (60min | 112-04-9 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 503 | Ethyl nitrite T3 | 109-95-5 | 60.00 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 5.00 |
| 504 | Diglycidyl ether #(T3) | 2238-07-5 | 10.00 | 4.00 | 4.00 | 0.00 | 2.00 | 2.50 | 1.25 | 2.50 |
| 505 | Ethyleneimine | 151-56-4 | 9.90 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 506 | Pentaborane | 19624-22-7 | 0.70 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 507 | Tetramethyl succinonitrile #(I) | 3333-52-6 | 5.00 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 508 | Vinylidene chloride, inhibited-T3 | 75-35-4 | 600.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 509 | Tetramethyllead-T3* | 75-74-1 | 4.57 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 510 | Nitromethane #(T3) | 75-52-5 | 750.00 | 2.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 511 | sec-Amyl acetate #(T3) | 626-38-0 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 512 | Trifluorochloroethylene-E3* | 79-38-9 | 300.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 513 | Decaborane * #(T3) | 17702-41-9 | 3.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 514 | Morpholine #(T3) | 110-91-8 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 515 | Trinitrotoluene | 118-96-7 | 55.32 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 516 | Dimethylpropane, 2,2- T3 | 463-82-1 | 50000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 517 | Cyclopropane T3 | 75-19-4 | 60000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 518 | Diethyleneglycol dinitrate R | 693-21-0 | 0.31 | 5.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 2.50 |
| 519 | Ammonium perchlorate T3 | 7790-98-9 | 104.05 | 2.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 1.00 |
| 520 | 2-Nitropropane #(T3) | 79-46-9 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 521 | Furan T3 | 110-00-9 | 19.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 522 | Crotonaldehyde, (E)- T3 | 123-73-9 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 523 | Allyltrichlorosilane, stabilized as allyl chloride | 107-37-9 | 20.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 524 | Methacrylonitrile-T3* | 126-98-7 | 25.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 525 | 1,3- pentadiene-R*B97 | 504-60-9 | 280.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 526 | sec Hexyl acetate #(I) | 108-84-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 527 | Propadiene-T3* | 463-49-0 | 4000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 528 | Vinylidene fluoride-T3* | 75-38-7 | 12500.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 529 | Pentaerythrite tetranitrate #(T3) | 78-11-5 | 38.97 | 3.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 1.00 |
| 530 | Mesityl oxide #(T3) | 141-79-7 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 531 | Methyl formate #(T3) | 107-31-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 532 | Vinyl toluene #(I) | 25013-15-4 | 400.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 533 | Isoproyl chloride-T3* | 75-29-6 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 534 | Amyltrichlorosilane R | 107-72-2 | 500.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 535 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 22160-08-3 | 110.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 536 | Lithium nitride-T3* | 26134-62-3 | 7.02 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 537 | Nitroethane #(T3) | 79-24-3 | 1000.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 538 | Propylene imine | 75-55-8 | 23.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 539 | 2-Hexanone #(T3) | 591-78-6 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 494 | Ethylene glycol dinitrate #(I) | 8.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 495 | Lithium #(T3) | 4.50 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 496 | Methylal #(T3) | 5.00 | 10.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 497 | Ronnel #(I) | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 498 | tert-Butyl acetate #(T3) | 6.00 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 9.00 |
| 499 | Isopentane-T3* | 5.00 | 17.00 | 1.00 | 29.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 500 | Propyltrichlorosilane-A3* (60 min | 8.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 501 | Hexyltrichlorosilane T3 | 8.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 502 | Octadecyltrichlorosilane-A3* (60min | 8.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 503 | Ethyl nitrite T3 | 8.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 504 | Diglycidyl ether #(T3) | 7.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.75 |
| 505 | Ethyleneimine | 7.75 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.75 |
| 506 | Pentaborane | 8.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.75 |
| 507 | Tetramethyl succinonitrile #(I) | 8.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.75 |
| 508 | Vinylidene chloride, inhibited-T3 | 5.75 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.75 |
| 509 | Tetramethyllead-T3* | 7.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.75 |
| 510 | Nitromethane #(T3) | 5.13 | 7.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 8.63 |
| 511 | sec-Amyl acetate #(T3) | 7.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 512 | Trifluorochloroethylene-E3* | 7.63 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 513 | Decaborane * #(T3) | 7.50 | 2.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 514 | Morpholine #(T3) | 4.50 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 515 | Trinitrotoluene | 4.00 | 11.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 8.50 |
| 516 | Dimethylpropane, 2,2- T3 | 7.50 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 517 | Cyclopropane T3 | 7.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 518 | Diethyleneglycol dinitrate R | 7.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 519 | Ammonium perchlorate T3 | 5.50 | 2.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 520 | 2-Nitropropane #(T3) | 7.38 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 521 | Furan T3 | 7.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 522 | Crotonaldehyde, (E)- T3 | 7.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 523 | Allyltrichlorosilane, stabilized as allyl chloride | 7.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 524 | Methacrylonitrile-T3* | 7.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 525 | 1,3- pentadiene-R*B97 | 6.38 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 8.38 |
| 526 | sec Hexyl acetate #(I) | 8.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.25 |
| 527 | Propadiene-T3* | 6.25 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 8.25 |
| 528 | Vinylidene fluoride-T3* | 6.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 8.25 |
| 529 | Pentaerythrite tetranitrate #(T3) | 4.63 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 8.13 |
| 530 | Mesityl oxide #(T3) | 6.00 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 8.00 |
| 531 | Methyl formate #(T3) | 5.00 | 8.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 532 | Vinyl toluene #(I) | 7.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.00 |
| 533 | Isoproyl chloride-T3* | 5.00 | 1.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 534 | Amyltrichlorosilane R | 7.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.00 |
| 535 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 7.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 7.88 |
| 536 | Lithium nitride-T3* | 6.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.88 |
| 537 | Nitroethane #(T3) | 5.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.75 |
| 538 | Propylene imine | 6.75 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 7.75 |
| 539 | 2-Hexanone #(T3) | 6.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.63 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 540 | sec-Butyl acetate #(T3) | 105-46-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 541 | Tetrafluoroethylene-E3* | 116-14-3 | 10000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 542 | 1,2-Dichloroethylene #(T3) | 540-59-0 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 543 | 1-Chloro-1-nitropropane #(I) | 600-25-9 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 2.50 |
| 544 | 1-Nitropropane #(I) | 108-03-2 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 545 | Ethyl mercaptan | 75-08-1 | 360.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 546 | Isopropyl glycidyl ether #(I) | 4016-14-2 | 400.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 547 | Methyldichlorosilane-R* | 75-54-7 | 1200.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 548 | Vinyltrichlorosilane-R* | 75-94-5 | 2000.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 549 | Methoxyflurane #(IDLH of halgenated ethers-general) | 76-38-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 550 | Vinyl fluoride-T3* | 75-02-5 | 150000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 551 | Magnesium phosphide- Rentokil MSDS* | 12057-74-8 | 2.40 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 552 | Vinyl methyl ether-R* | 107-25-5 | 64000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 553 | Acetyl Iodide (as acetyl bromide) T3 | 507-02-8 | 20.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 554 | Vinyl ethyl ether-T3* | 109-92-2 | 1500.00 | 1.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 555 | Isoprene-T3* | 78-79-5 | 25000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 556 | 1,1-Dichloroethane #(T3) | 75-34-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 557 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 18810-58-7 | 1.38 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 558 | Ethyl acetylene (as ethylene) | 107-00-6 | 15000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 559 | 2-Chloropropylene T3 | 557-98-2 | 35000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 560 | Trinitrochlorobenzene-T3* | 88-88-0 | 24.69 | 3.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 561 | Methyl acetylene #(T3) | 74-99-7 | 1700.00 | 1.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 562 | Ammonium Picrate T3 | 131-74-8 | 24.83 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 563 | HMX T3 | 2691-41-0 | 41.28 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 564 | 1-Chloropropylene R | 590-21-6 | 8000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 565 | 1-pentene-T3* | 109-67-1 | 30000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 566 | 2-Methyl-1-butene-T3* | 563-46-2 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 567 | Diethyldichlorosilane R | 1719-53-5 | 4668.58 | 0.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 568 | Dinitrophenol, Dry or wet T3 | 25550-58-7 (51-28-5) | 3.32 | 4.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 569 | n-Propyl nitrate #(T3) | 627-13-4 | 1160.00 | 1.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 570 | Vinyl acetylene-R* | 689-97-4 | 105000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 540 | sec-Butyl acetate #(T3) | 6.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.63 |
| 541 | Tetrafluoroethylene-E3* | 5.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.63 |
| 542 | 1,2-Dichloroethylene #(T3) | 6.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.38 |
| 543 | 1-Chloro-1-nitropropane #(I) | 7.38 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 |
| 544 | 1-Nitropropane #(I) | 6.38 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 7.38 |
| 545 | Ethyl mercaptan | 6.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.38 |
| 546 | Isopropyl glycidyl ether #(I) | 6.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.38 |
| 547 | Methyldichlorosilane-R* | 5.38 | 2.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.38 |
| 548 | Vinyltrichlorosilane-R* | 5.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.38 |
| 549 | Methoxyflurane #(IDLH of halgenated ethers-general) | 5.75 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 7.25 |
| 550 | Vinyl fluoride-T3* | 6.25 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.25 |
| 551 | Magnesium phosphide- Rentokil MSDS* | 6.25 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.25 |
| 552 | Vinyl methyl ether-R* | 6.25 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.25 |
| 553 | Acetyl Iodide (as acetyl bromide) T3 | 6.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.75 |
| 554 | Vinyl ethyl ether-T3* | 4.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 6.75 |
| 555 | Isoprene-T3* | 3.75 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 556 | 1,1-Dichloroethane #(T3) | 5.63 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.63 |
| 557 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 5.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.63 |
| 558 | Ethyl acetylene (as ethylene) | 5.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.63 |
| 559 | 2-Chloropropylene T3 | 4.38 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.38 |
| 560 | Trinitrochlorobenzene-T3* | 5.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.25 |
| 561 | Methyl acetylene #(T3) | 4.13 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 6.13 |
| 562 | Ammonium Picrate T3 | 4.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.63 |
| 563 | HMX T3 | 4.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.63 |
| 564 | 1-Chloropropylene R | 4.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 565 | 1-pentene-T3* | 4.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 566 | 2-Methyl-1-butene-T3* | 4.38 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 567 | Diethyldichlorosilane R | 4.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 568 | Dinitrophenol, Dry or wet T3 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 569 | n-Propyl nitrate #(T3) | 4.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.75 |
| 570 | Vinyl acetylene-R* | 3.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.13 |

| Critical Inhalation/Ocular Hazard List | | | | | | |
|---|---|---|---|---|---|---|
| Rank | Chemical | CAS Number | Toxic (Operational) Hazard Score | Probability Section | | Total Score |
| | | | | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 7782-50-5 | 13.00 | 10.00 | 5.00 | 28.00 |
| 2 | Hydrogen chloride | 7647-01-0 | 12.38 | 10.00 | 0.50 | 22.88 |
| 3 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 11.75 | 10.00 | 0.50 | 22.25 |
| 4 | Ammonia | 7664-41-7 | 10.38 | 10.00 | 5.00 | 25.38 |
| 5 | Sulfuric acid | 7664-93-9 | 10.25 | 10.00 | 2.50 | 22.75 |
| 6 | Nitric acid | 7697-37-2 | 10.50 | 9.00 | 0.50 | 20.00 |
| 7 | Hydrogen fluoride | 7664-39-3 | 12.38 | 7.00 | 2.50 | 21.88 |
| 8 | Sulfur dioxide | 7446-09-5 | 13.00 | 6.00 | 0.00 | 19.00 |
| 9 | Hydrogen bromide | 10035-10-6 | 12.00 | 5.00 | 0.00 | 17.00 |
| 10 | Phosphorus trichloride | 7719-12-2 | 10.25 | 5.00 | 0.00 | 15.25 |
| 11 | Phosgene | 75-44-5 | 14.38 | 4.00 | 0.50 | 18.88 |
| 12 | Nitric oxide #(I) | 10102-43-9 | 13.00 | 4.00 | 0.00 | 17.00 |
| 13 | OMPA | 152-16-9 | 12.50 | 4.00 | 0.50 | 17.00 |
| 14 | Boron trifluoride * | 7637-07-2 | 12.38 | 4.00 | 0.00 | 16.38 |
| 15 | Mercury | 7439-97-6 | 11.50 | 4.00 | 5.00 | 20.50 |
| 16 | Bromine | 7726-95-6 | 11.50 | 4.00 | 0.00 | 15.50 |
| 17 | Chlorine dioxide | 10049-04-4 | 11.50 | 4.00 | 0.00 | 15.50 |
| 18 | Oleum-E3* | 8014-95-7 | 11.50 | 4.00 | 0.00 | 15.50 |
| 19 | Methyl bromide | 74-83-9 | 11.38 | 4.00 | 0.50 | 15.88 |
| 20 | Phosphoryl Trichloride | 10025-87-3 | 11.25 | 4.00 | 0.50 | 15.75 |
| 21 | Fluorotrichloromethane #(T3) | 75-69-4 | 11.00 | 4.00 | 0.00 | 15.00 |
| 22 | Toluene-2,4-diisocyanate | 584-84-9 | 10.63 | 4.00 | 0.00 | 14.63 |
| 23 | Hydrogen sulfide | 7783-06-4 | 10.50 | 4.00 | 0.50 | 15.00 |
| 24 | Molybdophosphoric acid | 51429-74-4 | 10.50 | 4.00 | 0.50 | 15.00 |
| 25 | Fluorine | 7782-41-4 | 10.50 | 4.00 | 0.00 | 14.50 |
| 26 | Malathion * #(T3) | 121-75-5 | 10.50 | 4.00 | 0.00 | 14.50 |
| 27 | Boron trichloride T3 | 10294-34-5 | 10.25 | 4.00 | 0.00 | 14.25 |
| 28 | Tungsten hexafluoride-T3* | 7783-82-6 | 11.75 | 3.00 | 0.00 | 14.75 |
| 29 | Hexafluoroacetone E3 | 684-16-2 | 11.75 | 3.00 | 0.00 | 14.75 |
| 30 | Silicon tetrafluoride-T3* | 7783-61-1 | 11.75 | 3.00 | 0.00 | 14.75 |
| 31 | Acetylene tetrabromide #(T3) | 79-27-6 | 10.88 | 3.00 | 0.00 | 13.88 |
| 32 | o-Anisidine * #(T3) | 90-04-0 | 10.88 | 3.00 | 0.00 | 13.88 |
| 33 | Sulfur trioxide | 11/9/7446 | 10.75 | 3.00 | 0.00 | 13.75 |
| 34 | Hydrogen iodide T3 | 10034-85-2 | 10.75 | 3.00 | 0.00 | 13.75 |
| 35 | Parathion * | 56-38-2 | 10.63 | 3.00 | 0.50 | 14.13 |
| 36 | Ethylene dibromide | 106-93-4 | 10.50 | 3.00 | 0.00 | 13.50 |
| 37 | Phosphine | 7803-51-2 | 10.25 | 3.00 | 0.50 | 13.75 |
| 38 | Chlorosulfonic acid E3 | 7790-94-5 | 10.25 | 3.00 | 0.00 | 13.25 |
| 39 | Boron tribromide T3 | 10294-33-4 | 10.25 | 3.00 | 0.00 | 13.25 |
| 40 | Thionyl chloride-E3* | 7719-09-715 | 10.25 | 3.00 | 0.00 | 13.25 |
| 41 | Nitrogen dioxide | 10102-44-0 | 13.00 | 2.00 | 0.50 | 15.50 |
| 42 | Sulfur tetrafluoride-T3* | 7783-60-0 | 12.75 | 2.00 | 0.00 | 14.75 |
| 43 | Chlorine trifluoride E3 | 7790-91-2 | 12.13 | 2.00 | 0.00 | 14.13 |
| 44 | Germanium tetrafluoride T3 | 7783-58-6 | 11.75 | 2.00 | 0.00 | 13.75 |
| 45 | Arsine | 7784-42-1 | 11.25 | 2.00 | 0.50 | 13.75 |
| 46 | Pentachlorophenol * #(T3) | 87-86-5 | 11.00 | 2.00 | 0.00 | 13.00 |
| 47 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 10.50 | 2.00 | 0.00 | 12.50 |
| 48 | Azinphosmethyl * #(T3) | 86-50-0 | 10.38 | 2.00 | 0.50 | 12.88 |
| 49 | Methylphenyldichlorosilane-T3* | 149-74-6 | 10.25 | 2.00 | 0.00 | 12.25 |

**High Priority Inhalation/Ocular Hazard List**

| Rank | Chemical | CAS Number | Toxic (Operational) Hazard Score | Probability Section | | Total Score |
|---|---|---|---|---|---|---|
| | | | | Relative Probability Score | Threat Scores | |
| 1 | Ammonia | 7664-41-7 | 10.38 | 10.00 | 5.00 | 25.38 |
| 2 | Chlorine | 7782-50-5 | 13.00 | 10.00 | 5.00 | 28.00 |
| 3 | Formaldehyde E3 | 50-00-0 | 10.50 | 10.00 | 0.50 | 21.00 |
| 4 | Hydrogen bromide | 10035-10-6 | 12.00 | 5.00 | 0.00 | 17.00 |
| 5 | Hydrogen chloride | 7647-01-0 | 12.38 | 10.00 | 0.50 | 22.88 |
| 6 | Hydrogen fluoride | 7664-39-3 | 12.38 | 7.00 | 2.50 | 21.88 |
| 7 | Hydrogen sulfide | 7783-06-4 | 10.50 | 4.00 | 0.50 | 15.00 |
| 8 | Mercury | 7439-97-6 | 11.50 | 4.00 | 5.00 | 20.50 |
| 9 | Methyl bromide | 74-83-9 | 11.38 | 4.00 | 0.50 | 15.88 |
| 10 | Nitric acid/Nitrogen Dioxide | 7697-37-2 | 10.50 | 9.00 | 0.50 | 20.00 |
| 11 | OMPA | 152-16-9 | 12.50 | 4.00 | 0.50 | 17.00 |
| 12 | Phosgene | 75-44-5 | 14.38 | 4.00 | 0.50 | 18.88 |
| 13 | Sulfur dioxide | 7446-09-5 | 13.00 | 6.00 | 0.00 | 19.00 |
| 14 | Sulfuric acid | 7664-93-9 | 10.25 | 10.00 | 2.50 | 22.75 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 7782-50-5 | 20.00 | 3.00 | 5.00 | 8.00 | 63.00 | 5.00 | 344.00 | 5.00 | 10.00 | 5.00 | 23.00 |
| 2 | Ammonia | 7664-41-7 | 1100.00 | 1.00 | 5.00 | 6.00 | 56.00 | 5.00 | 348.00 | 5.00 | 10.00 | 5.00 | 21.00 |
| 3 | Sulfuric acid | 7664-93-9 | 7.47 | 4.00 | 2.50 | 6.50 | 66.00 | 5.00 | 544.00 | 5.00 | 10.00 | 2.50 | 19.00 |
| 4 | Hydrogen chloride | 7647-01-0 | 100.00 | 3.00 | 5.00 | 8.00 | 63.00 | 5.00 | 528.00 | 5.00 | 10.00 | 0.50 | 18.50 |
| 5 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 25.00 | 3.00 | 5.00 | 8.00 | 53.00 | 5.00 | 260.00 | 5.00 | 10.00 | 0.50 | 18.50 |
| 6 | Calcium Carbonate #(T3) | 471-34-1 | 3.66 | 4.00 | 1.00 | 5.00 | 52.00 | 5.00 | 309.00 | 5.00 | 10.00 | 2.50 | 17.50 |
| 7 | Hydrogen fluoride | 7664-39-3 | 44.00 | 3.00 | 5.00 | 8.00 | 25.00 | 2.00 | 138.00 | 5.00 | 7.00 | 2.50 | 17.50 |
| 8 | Calcium chloride | 10043-52-4 | 88.19 | 3.00 | 1.00 | 4.00 | 43.00 | 4.00 | 208.00 | 5.00 | 9.00 | 2.50 | 15.50 |
| 9 | Mercury | 7439-97-6 | 1.08 | 4.00 | 2.50 | 6.50 | 14.00 | 1.00 | 24.00 | 3.00 | 4.00 | 5.00 | 15.50 |
| 10 | Nitric acid | 7697-37-2 | 92.00 | 3.00 | 2.50 | 5.50 | 49.00 | 4.00 | 226.00 | 5.00 | 9.00 | 0.50 | 15.00 |
| 11 | Ammonium Chloride | 12125-02-9 | 228.00 | 2.00 | 1.00 | 3.00 | 25.00 | 2.00 | 141.00 | 5.00 | 7.00 | 5.00 | 15.00 |
| 12 | Isobutane-T3* | 75-28-5 | 15000.00 | 0.00 | 5.00 | 5.00 | 68.00 | 5.00 | 409.00 | 5.00 | 10.00 | 0.00 | 15.00 |
| 13 | Hydrogen T3 | 1333-74-0 | 500000.00 | 0.00 | 5.00 | 5.00 | 70.00 | 5.00 | 340.00 | 5.00 | 10.00 | 0.00 | 15.00 |
| 14 | Propylene-T3* | 115-07-1 | 500000.00 | 0.00 | 5.00 | 5.00 | 52.00 | 5.00 | 211.00 | 5.00 | 10.00 | 0.00 | 15.00 |
| 15 | Acetylene *T3 | 74-86-2 | 6000.00 | 0.00 | 5.00 | 5.00 | 93.00 | 5.00 | 253.00 | 5.00 | 10.00 | 0.00 | 15.00 |
| 16 | Copper sulfate #(T3) | 7758-98-7 | 3.92 | 4.00 | 1.00 | 5.00 | 29.00 | 2.00 | 188.00 | 5.00 | 7.00 | 2.50 | 14.50 |
| 17 | Sodium Sulfate #(T3) | 7757-82-6 | 21.52 | 3.00 | 1.00 | 4.00 | 36.00 | 3.00 | 200.00 | 5.00 | 8.00 | 2.50 | 14.50 |
| 18 | Phosgene | 75-44-5 | 0.75 | 5.00 | 5.00 | 10.00 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 19 | Hydrogen cyanide | 74-90-8 | 15.00 | 3.00 | 2.50 | 5.50 | 13.00 | 1.00 | 25.00 | 3.00 | 4.00 | 5.00 | 14.50 |
| 20 | Sodium hydroxide #(E3) | 1310-73-2 | 30.56 | 3.00 | 1.00 | 4.00 | 64.00 | 5.00 | 477.00 | 5.00 | 10.00 | 0.50 | 14.50 |
| 21 | Arsenic Trioxide | 1327-53-3 | 1.12 | 4.00 | 1.00 | 5.00 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 5.00 | 14.00 |
| 22 | Sulfur dioxide | 7446-09-5 | 30.00 | 3.00 | 5.00 | 8.00 | 27.00 | 2.00 | 79.00 | 4.00 | 6.00 | 0.00 | 14.00 |
| 23 | Acetic acid #(T3) | 64-19-7 | 250.00 | 2.00 | 2.50 | 4.50 | 40.00 | 4.00 | 186.00 | 5.00 | 9.00 | 0.50 | 14.00 |
| 24 | Hydrogen peroxide #(E3) | 7722-84-1 | 100.00 | 3.00 | 2.50 | 5.50 | 38.00 | 3.00 | 172.00 | 5.00 | 8.00 | 0.50 | 14.00 |
| 25 | Propane | 74-98-6 | 33000.00 | 0.00 | 5.00 | 5.00 | 42.00 | 4.00 | 142.00 | 5.00 | 9.00 | 0.00 | 14.00 |
| 26 | Ethylene oxide | 75-21-8 | 200.00 | 2.00 | 5.00 | 7.00 | 32.00 | 3.00 | 84.00 | 4.00 | 7.00 | 0.00 | 14.00 |
| 27 | Dibasic sodium phosphate | 10039-32-4 | 25.83 | 3.00 | 1.00 | 4.00 | 22.00 | 2.00 | 125.00 | 5.00 | 7.00 | 2.50 | 13.50 |
| 28 | Silica #(T3) | 7631-86-9 | 203.72 | 2.00 | 1.00 | 3.00 | 30.00 | 3.00 | 131.00 | 5.00 | 8.00 | 2.50 | 13.50 |
| 29 | Sodium bicarbonate #(T3) | 144-55-8 | 145.00 | 2.00 | 1.00 | 3.00 | 30.00 | 3.00 | 138.00 | 5.00 | 8.00 | 2.50 | 13.50 |
| 30 | Calcium Hydroxide #(T3) | 1305-62-0 | 165.00 | 2.00 | 1.00 | 3.00 | 38.00 | 3.00 | 144.00 | 5.00 | 8.00 | 2.50 | 13.50 |
| 31 | Kerosene #(T3) | 8008-20-6 | 57.53 | 3.00 | 2.50 | 5.50 | 35.00 | 3.00 | 102.00 | 5.00 | 8.00 | 0.00 | 13.50 |
| 32 | Sodium Nitrate #(T3) | 7631-99-4 | 28.77 | 3.00 | 1.00 | 4.00 | 23.00 | 2.00 | 124.00 | 5.00 | 7.00 | 2.50 | 13.50 |
| 33 | Chloroacetyl chloride E3 | 79-04-9 | 10.00 | 4.00 | 2.50 | 6.50 | 25.00 | 2.00 | 179.00 | 5.00 | 7.00 | 0.00 | 13.50 |
| 34 | Aniline | 62-53-3 | 20.00 | 3.00 | 2.50 | 5.50 | 16.00 | 1.00 | 64.00 | 4.00 | 5.00 | 2.50 | 13.00 |
| 35 | Ethyl alcohol #(T3) | 64-17-5 | 3300.00 | 0.00 | 2.50 | 2.50 | 51.00 | 5.00 | 321.00 | 5.00 | 10.00 | 0.50 | 13.00 |
| 36 | Ammonium nitrate, no organic coating T3 | 6484-52-2 | 152.73 | 2.00 | 1.00 | 3.00 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 13.00 |
| 37 | Ammonium nitrate, with organic coating | 6484-52-2 | 152.73 | 2.00 | 1.00 | 3.00 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 13.00 |
| 38 | Chlorine dioxide | 10049-04-4 | 2.40 | 4.00 | 5.00 | 9.00 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 39 | 1,3-Butadiene | 106-99-0 | 22000.00 | 0.00 | 5.00 | 5.00 | 31.00 | 3.00 | 111.00 | 5.00 | 8.00 | 0.00 | 13.00 |
| 40 | Boron trichloride T3 | 10294-34-5 | 2.50 | 4.00 | 5.00 | 9.00 | 16.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 41 | Chlorpyrifos #(T3) | 2921-88-2 | 5.23 | 4.00 | 1.00 | 5.00 | 17.00 | 1.00 | 71.00 | 4.00 | 5.00 | 2.50 | 12.50 |
| 42 | Magnesium Oxide #(T3) | 1309-48-4 | 303.35 | 2.00 | 1.00 | 3.00 | 28.00 | 2.00 | 134.00 | 5.00 | 7.00 | 2.50 | 12.50 |
| 43 | Sodium cyanide #(T3) | 143-33-9 | 19.96 | 3.00 | 1.00 | 4.00 | 21.00 | 2.00 | 52.00 | 4.00 | 6.00 | 2.50 | 12.50 |
| 44 | Diethylene glycol | 111-46-6 | 100.00 | 3.00 | 2.00 | 5.00 | 30.00 | 3.00 | 94.00 | 4.00 | 7.00 | 0.50 | 12.50 |
| 45 | Potassium dichromate #(T3) | 7778-50-9 | 3.32 | 4.00 | 1.00 | 5.00 | 17.00 | 1.00 | 69.00 | 4.00 | 5.00 | 2.50 | 12.50 |
| 46 | Sodium chlorate | 7775-09-9 | 17.22 | 3.00 | 1.00 | 4.00 | 20.00 | 2.00 | 59.00 | 4.00 | 6.00 | 2.50 | 12.50 |
| 47 | Carbon monoxide/Syngas | 1333-74-0 | 500000.00 | 0.00 | 5.00 | 5.00 | 31.00 | 3.00 | 55.00 | 4.00 | 7.00 | 0.50 | 12.50 |
| 48 | Hydrogen sulfide | 7783-06-4 | 50.00 | 3.00 | 5.00 | 8.00 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.50 | 12.50 |
| 49 | Arsine | 7784-42-1 | 0.50 | 5.00 | 5.00 | 10.00 | 8.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 12.50 |
| 50 | Phosphine | 7803-51-2 | 3.60 | 4.00 | 5.00 | 9.00 | 9.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.50 | 12.50 |
| 51 | Gypsum #(T3 as K2CO3) | 13397-24-5 | 88.39 | 3.00 | 1.00 | 4.00 | 36.00 | 3.00 | 127.00 | 5.00 | 8.00 | 0.00 | 12.00 |
| 52 | Hydrogen bromide | 10035-10-6 | 120.00 | 2.00 | 5.00 | 7.00 | 16.00 | 1.00 | 73.00 | 4.00 | 5.00 | 0.00 | 12.00 |
| 53 | Lindane * #(T3) | 58-89-9 | 4.20 | 4.00 | 1.00 | 5.00 | 3.00 | 0.00 | 9.00 | 2.00 | 2.00 | 5.00 | 12.00 |
| 54 | Methomyl | 16752-77-5 | 30.13 | 3.00 | 1.00 | 4.00 | 9.00 | 0.00 | 46.00 | 3.00 | 3.00 | 5.00 | 12.00 |
| 55 | Nitric oxide #(I) | 10102-43-9 | 20.00 | 3.00 | 5.00 | 8.00 | 11.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 56 | OMPA | 152-16-9 | 0.30 | 5.00 | 2.50 | 7.50 | 11.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 12.00 |
| 57 | Phosphoric acid *#(T3) | 7664-38-2 | 124.70 | 2.00 | 1.00 | 3.00 | 49.00 | 4.00 | 245.00 | 5.00 | 9.00 | 0.00 | 12.00 |
| 58 | Boron trifluoride * | 7637-07-2 | 39.66 | 3.00 | 5.00 | 8.00 | 11.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 59 | Phosphoryl Trichloride | 10025-87-3 | 0.85 | 5.00 | 2.50 | 7.50 | 14.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 12.00 |
| 60 | Benzene | 71-43-2 | 4000.00 | 0.00 | 2.50 | 2.50 | 42.00 | 4.00 | 291.00 | 5.00 | 9.00 | 0.50 | 12.00 |
| 61 | Ethyl acetate #(T3) | 141-78-6 | 2000.00 | 1.00 | 2.50 | 3.50 | 30.00 | 3.00 | 139.00 | 5.00 | 8.00 | 0.50 | 12.00 |
| 62 | Isobutyl alcohol #(T3) | 78-83-1 | 1600.00 | 1.00 | 2.50 | 3.50 | 27.00 | 2.00 | 80.00 | 4.00 | 6.00 | 2.50 | 12.00 |
| 63 | Isopropyl alcohol #(T3) | 67-63-0 | 2000.00 | 1.00 | 2.50 | 3.50 | 24.00 | 2.00 | 90.00 | 4.00 | 6.00 | 2.50 | 12.00 |
| 64 | Methyl alcohol | 67-56-1 | 7200.00 | 0.00 | 2.50 | 2.50 | 47.00 | 4.00 | 268.00 | 5.00 | 9.00 | 0.50 | 12.00 |
| 65 | Nitrobenzene #(T3) | 98-95-3 | 200.00 | 2.00 | 2.50 | 4.50 | 12.00 | 1.00 | 55.00 | 4.00 | 5.00 | 2.50 | 12.00 |
| 66 | Toluene | 108-88-3 | 4500.00 | 0.00 | 2.50 | 2.50 | 40.00 | 4.00 | 237.00 | 5.00 | 9.00 | 0.50 | 12.00 |
| 67 | Fluorine | 7782-41-4 | 13.00 | 3.00 | 5.00 | 8.00 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 68 | Butane T3 | 106-97-8 | 19000.00 | 0.00 | 5.00 | 5.00 | 36.00 | 3.00 | 97.00 | 4.00 | 7.00 | 0.00 | 12.00 |
| 69 | Magnesium (powder)-T3* | 7439-95-4 | 251.49 | 2.00 | 1.00 | 3.00 | 42.00 | 4.00 | 423.00 | 5.00 | 9.00 | 0.00 | 12.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 70 | Dichlorosilane T3 | 4109-96-0 | 75.00 | 3.00 | 5.00 | 8.00 | 12.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 71 | Ethylene T3 | 74-85-1 | 15000.00 | 0.00 | 5.00 | 5.00 | 20.00 | 2.00 | 173.00 | 5.00 | 7.00 | 0.00 | 12.00 |
| 72 | Potassium ferrocyanide #(T3) | 13943-58-3 | 3.42 | 4.00 | 1.00 | 5.00 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 2.50 | 11.50 |
| 73 | Sodium chloride #(T3) | 7647-14-5 | 209.19 | 2.00 | 1.00 | 3.00 | 38.00 | 3.00 | 175.00 | 5.00 | 8.00 | 0.50 | 11.50 |
| 74 | Sodium dodecyl sulfate #(T3) | 151-21-3 | 42.39 | 3.00 | 1.00 | 4.00 | 27.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.50 | 11.50 |
| 75 | Zinc | 7440-66-6 | 74.79 | 3.00 | 1.00 | 4.00 | 31.00 | 3.00 | 90.00 | 4.00 | 7.00 | 0.50 | 11.50 |
| 76 | Dibutyl phthalate *#(T3) | 84-74-2 | 43.90 | 3.00 | 2.50 | 5.50 | 27.00 | 2.00 | 88.00 | 4.00 | 6.00 | 0.00 | 11.50 |
| 77 | Methyl bromide | 74-83-9 | 740.00 | 2.00 | 5.00 | 7.00 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 11.50 |
| 78 | Potassium Hydroxide #(T3) | 1310-58-3 | 65.36 | 3.00 | 1.00 | 4.00 | 24.00 | 2.00 | 107.00 | 5.00 | 7.00 | 0.50 | 11.50 |
| 79 | Silver nitrate #(T3) | 7761-88-8 | 2.17 | 4.00 | 1.00 | 5.00 | 22.00 | 2.00 | 80.00 | 4.00 | 6.00 | 0.50 | 11.50 |
| 80 | Ethanolamine #(T3) | 141-43-5 | 30.00 | 3.00 | 2.50 | 5.50 | 20.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 11.50 |
| 81 | Formic acid #(T3) | 64-18-6 | 30.00 | 3.00 | 2.50 | 5.50 | 26.00 | 2.00 | 84.00 | 4.00 | 6.00 | 0.00 | 11.50 |
| 82 | Phosphorus trichloride | 7719-12-2 | 5.60 | 4.00 | 2.50 | 6.50 | 11.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.00 | 11.50 |
| 83 | Toluene-2,4-diisocyanate | 584-84-9 | 0.51 | 5.00 | 2.50 | 7.50 | 12.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 11.50 |
| 84 | Xylenes #(T3) | 95-47-6 | 900.00 | 2.00 | 2.50 | 4.50 | 32.00 | 3.00 | 76.00 | 4.00 | 7.00 | 0.00 | 11.50 |
| 85 | Selenium hexafluoride | 7783-79-1 | 0.26 | 5.00 | 5.00 | 10.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 86 | Dichlorvos | 62-73-7 | 100.00 | 3.00 | 2.50 | 5.50 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.50 | 11.00 |
| 87 | Iron oxide #(T3) | 1309-37-1 | 76.55 | 3.00 | 1.00 | 4.00 | 27.00 | 2.00 | 141.00 | 5.00 | 7.00 | 0.00 | 11.00 |
| 88 | Tetrafluoroboric acid #(T3) | 16872-11-0 | 11.14 | 3.00 | 2.50 | 5.50 | 17.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.50 | 11.00 |
| 89 | Sulfur tetrafluoride-T3* | 7783-60-0 | 2.08 | 4.00 | 5.00 | 9.00 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 90 | Tungsten hexaflluoride-T3* | 7783-82-6 | 32.84 | 3.00 | 5.00 | 8.00 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 91 | Hexafluoroacetone E3 | 684-16-2 | 50.00 | 3.00 | 5.00 | 8.00 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 92 | Silicon tetrafluoride-T3* | 7783-61-1 | 100.00 | 3.00 | 5.00 | 8.00 | 9.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 11.00 |
| 93 | Parathion * | 56-38-2 | 0.17 | 5.00 | 2.50 | 7.50 | 3.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 11.00 |
| 94 | Chlorine trifluoride E3 | 7790-91-2 | 10.00 | 4.00 | 5.00 | 9.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 95 | Dimethylamine | 124-40-3 | 250.00 | 2.00 | 5.00 | 7.00 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 96 | Ethylamine | 75-04-7 | 270.00 | 2.00 | 5.00 | 7.00 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 97 | Methylamine | 74-89-5 | 350.00 | 2.00 | 5.00 | 7.00 | 14.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 98 | Aluminum (powder) *T3 | 7429-90-5 | 226.54 | 2.00 | 1.00 | 3.00 | 39.00 | 3.00 | 520.00 | 5.00 | 8.00 | 0.00 | 11.00 |
| 99 | Diborane | 19287-45-7 | 3.70 | 4.00 | 5.00 | 9.00 | 7.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 100 | Nitroglycerin #(T3) | 55-63-0 | 8.07 | 4.00 | 2.50 | 6.50 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 11.00 |
| 101 | Bromine | 7726-95-6 | 8.50 | 4.00 | 2.50 | 6.50 | 12.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 10.50 |
| 102 | Carbendazim | 10605-21-7 | 3.25 | 4.00 | 1.00 | 5.00 | 16.00 | 1.00 | 62.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 103 | Cobalt dichloride #(T3) | 7646-79-9 | 51.39 | 3.00 | 1.00 | 4.00 | 22.00 | 2.00 | 90.00 | 4.00 | 6.00 | 0.50 | 10.50 |
| 104 | Cyanogen Chloride | 460-19-5 | 10.00 | 4.00 | 5.00 | 9.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 10.50 |
| 105 | Iodine #(E3) | 7553-56-2 | 5.00 | 4.00 | 1.00 | 5.00 | 19.00 | 1.00 | 80.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 106 | Lead Oxide (#T3) | 1309-60-0 | 10.22 | 3.00 | 1.00 | 4.00 | 10.00 | 1.00 | 20.00 | 3.00 | 4.00 | 2.50 | 10.50 |
| 107 | Mercuric chloride #(T3 of Hg) | 7487-94-7 | 1.08 | 4.00 | 1.00 | 5.00 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 2.50 | 10.50 |
| 108 | Nitrogen dioxide | 10102-44-0 | 20.00 | 3.00 | 5.00 | 8.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 10.50 |
| 109 | Potassium cyanide #(T3) | 151-50-8 | 22.53 | 3.00 | 1.00 | 4.00 | 14.00 | 1.00 | 23.00 | 3.00 | 4.00 | 2.50 | 10.50 |
| 110 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 7778-53-2 | 89.84 | 3.00 | 1.00 | 4.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 2.50 | 10.50 |
| 111 | Oleum-E3* | 8014-95-7 | 4.12 | 4.00 | 2.50 | 6.50 | 9.00 | 0.00 | 81.00 | 4.00 | 4.00 | 0.00 | 10.50 |
| 112 | Acephate | 30560-19-1 | 5.00 | 4.00 | 1.00 | 5.00 | 9.00 | 0.00 | 49.00 | 3.00 | 3.00 | 2.50 | 10.50 |
| 113 | Barium nitrate *T3 | 10022-31-8 | 7.02 | 4.00 | 1.00 | 5.00 | 15.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 114 | Imidacloprid #(E3) | 105827-78-9 | 2.03 | 4.00 | 1.00 | 5.00 | 10.00 | 1.00 | 75.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 115 | Lead nitrate | 10099-74-8 | 11.07 | 3.00 | 1.00 | 4.00 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 2.50 | 10.50 |
| 116 | Potassium nitrate #(T3) | 7757-79-1 | 120.91 | 2.00 | 1.00 | 3.00 | 24.00 | 2.00 | 117.00 | 5.00 | 7.00 | 0.50 | 10.50 |
| 117 | Benomyl | 17804-35-2 | 0.84 | 5.00 | 1.00 | 6.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 10.50 |
| 118 | Cyclohexanone #(T3) | 108-94-1 | 700.00 | 2.00 | 2.50 | 4.50 | 25.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 10.50 |
| 119 | Paracetamol #(E3-phenol) | 103-90-2 | 200.00 | 2.00 | 1.00 | 3.00 | 23.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.50 | 10.50 |
| 120 | Phenol #(E3) | 108-95-2 | 200.00 | 2.00 | 1.00 | 3.00 | 26.00 | 2.00 | 129.00 | 5.00 | 7.00 | 0.50 | 10.50 |
| 121 | Acetone | 67-64-1 | 5700.00 | 0.00 | 2.50 | 2.50 | 30.00 | 3.00 | 146.00 | 5.00 | 8.00 | 0.00 | 10.50 |
| 122 | Dimethyl sulfate | 77-78-1 | 1.60 | 4.00 | 2.50 | 6.50 | 12.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 10.50 |
| 123 | Ethylene dichloride #(E3) | 107-06-2 | 300.00 | 2.00 | 2.50 | 4.50 | 28.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 10.50 |
| 124 | Furfural #(E3) | 98-01-1 | 100.00 | 3.00 | 2.50 | 5.50 | 19.00 | 1.00 | 66.00 | 4.00 | 5.00 | 0.00 | 10.50 |
| 125 | n-Butyl acetate #(E3) | 123-86-4 | 3000.00 | 0.00 | 2.50 | 2.50 | 30.00 | 3.00 | 124.00 | 5.00 | 8.00 | 0.00 | 10.50 |
| 126 | n-Butyl alcohol #(T3) | 71-36-3 | 1400.00 | 1.00 | 2.50 | 3.50 | 26.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.00 | 10.50 |
| 127 | Periodic acid | 10450-60-9 | 0.54 | 5.00 | 1.00 | 6.00 | 10.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.50 | 10.50 |
| 128 | Collodion #(T3) | 9004-70-0 | 12.23 | 3.00 | 2.50 | 5.50 | 22.00 | 2.00 | 40.00 | 3.00 | 5.00 | 0.00 | 10.50 |
| 129 | Acrylonitrile | 107-13-1 | 100.00 | 3.00 | 2.50 | 5.50 | 16.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 10.50 |
| 130 | Styrene | 100-42-5 | 1100.00 | 1.00 | 2.50 | 3.50 | 28.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.00 | 10.50 |
| 131 | Cypermethrin #(I as in pyrethrum) | 52315-07-8 | 293.87 | 2.00 | 2.50 | 4.50 | 15.00 | 1.00 | 89.00 | 4.00 | 5.00 | 0.50 | 10.00 |
| 132 | Fluorotrichloromethane #(T3) | 75-69-4 | 2000.00 | 1.00 | 5.00 | 6.00 | 12.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.00 | 10.00 |
| 133 | Molybdophosphoric acid | 51429-74-4 | 37.05 | 3.00 | 2.50 | 5.50 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 10.00 |
| 134 | Phenyl etherbiphenyl mixture (vapor) #(I) | 8004-13-5 | 10.00 | 4.00 | 5.00 | 9.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 135 | Nitrosyl chloride-T3* | 2696-92-6 | 2.50 | 4.00 | 5.00 | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 136 | Dimethylformamide | 68-12-2 | 530.00 | 2.00 | 2.50 | 4.50 | 19.00 | 1.00 | 64.00 | 4.00 | 5.00 | 0.50 | 10.00 |
| 137 | Naphthalene #(T3) | 91-20-3 | 250.00 | 2.00 | 1.00 | 3.00 | 25.00 | 2.00 | 103.00 | 5.00 | 7.00 | 0.00 | 10.00 |
| 138 | Sodium sulfide #(T3) | 1313-82-2 | 23.51 | 3.00 | 1.00 | 4.00 | 21.00 | 2.00 | 86.00 | 4.00 | 6.00 | 0.00 | 10.00 |
| 139 | Sulfur trioxide | 11/9/7446 | 160.00 | 2.00 | 5.00 | 7.00 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 10.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 140 | Germanium tetrafluoride T3 | 7783-58-6 | 82.25 | 3.00 | 5.00 | 8.00 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 10.00 |
| 141 | Hydrogen iodide T3 | 10034-85-2 | 120.00 | 2.00 | 5.00 | 7.00 | 2.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 10.00 |
| 142 | Cyclohexane #(T3) | 110-82-7 | 1300.00 | 1.00 | 2.50 | 3.50 | 26.00 | 2.00 | 75.00 | 4.00 | 6.00 | 0.50 | 10.00 |
| 143 | p-Phenylene diamine * #(T3) | 106-50-3 | 5.70 | 4.00 | 1.00 | 5.00 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 10.00 |
| 144 | Hydrogen selenide | 7783-07-5 | 2.20 | 4.00 | 5.00 | 9.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 145 | Trimethylamine-E3* | 75-50-3 | 500.00 | 2.00 | 5.00 | 7.00 | 8.00 | 0.00 | 41.00 | 3.00 | 3.00 | 0.00 | 10.00 |
| 146 | Ethane T3 | 74-84-0 | 25000.00 | 0.00 | 5.00 | 5.00 | 28.00 | 2.00 | 33.00 | 3.00 | 5.00 | 0.00 | 10.00 |
| 147 | Methyl mercaptan | 74-93-1 | 68.00 | 3.00 | 5.00 | 8.00 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 10.00 |
| 148 | Nitrogen trifluoride #(T3) | 7783-54-2 | 800.00 | 2.00 | 5.00 | 7.00 | 7.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 10.00 |
| 149 | Oxygen difluoride | 7783-41-7 | 2.50 | 4.00 | 5.00 | 9.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 150 | Diazomethane #(T3) | 334-88-3 | 2.00 | 4.00 | 5.00 | 9.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 151 | Benzoyl peroxide* #(T3) | 94-36-0 | 50.47 | 3.00 | 1.00 | 4.00 | 22.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 10.00 |
| 152 | Cadmium | 7440-43-9 | 1.96 | 4.00 | 1.00 | 5.00 | 19.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 153 | Copper oxychloride #(E3) | 1332-40-7 | 100.00 | 3.00 | 1.00 | 4.00 | 21.00 | 2.00 | 41.00 | 3.00 | 5.00 | 0.50 | 9.50 |
| 154 | Dimethoate #(T3) | 60-51-5 | 3.19 | 4.00 | 1.00 | 5.00 | 11.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 155 | Endosulfan | 115-29-7 | 2.10 | 4.00 | 1.00 | 5.00 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 156 | Malathion * #(T3) | 121-75-5 | 18.50 | 3.00 | 2.50 | 5.50 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 157 | Red mercuric oxide | 21908-53-2 | 1.08 | 4.00 | 1.00 | 5.00 | 11.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 158 | Sodium fluoride #(T3) | 7681-49-4 | 43.76 | 3.00 | 1.00 | 4.00 | 16.00 | 1.00 | 85.00 | 4.00 | 5.00 | 0.50 | 9.50 |
| 159 | Strychnine Sulfate #(T3) | 60-41-3 | 0.29 | 5.00 | 1.00 | 6.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 2.50 | 9.50 |
| 160 | Acetylene tetrabromide #(T3) | 79-27-6 | 8.00 | 4.00 | 2.50 | 6.50 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 161 | Ammonium persulfate *T3 | 7727-54-0 | 10.71 | 3.00 | 1.00 | 4.00 | 12.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 9.50 |
| 162 | Atrazine *T3 | 1912-24-9 | 1.50 | 4.00 | 1.00 | 5.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 163 | Castor oil #(T3) | 8001-79-4 | 13.12 | 3.00 | 2.50 | 5.50 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 164 | Cobalt (II) nitrate | 10141-05-6 | 12.60 | 3.00 | 1.00 | 4.00 | 18.00 | 1.00 | 70.00 | 4.00 | 5.00 | 0.50 | 9.50 |
| 165 | Dimethylphthalate * #(T3) | 131-11-3 | 62.96 | 3.00 | 2.50 | 5.50 | 16.00 | 1.00 | 36.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 166 | o-Anisidine * #(T3) | 90-04-0 | 9.93 | 4.00 | 2.50 | 6.50 | 5.00 | 0.00 | 24.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 167 | Paraquat* (dichloride) | 1910-42-5 | 19.60 | 3.00 | 1.00 | 4.00 | 8.00 | 0.00 | 29.00 | 3.00 | 3.00 | 2.50 | 9.50 |
| 168 | Potassium permanganate #(T3) | 7722-64-7 | 19.34 | 3.00 | 1.00 | 4.00 | 16.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 9.50 |
| 169 | Tributyl phosphate #(T3) | 126-73-8 | 30.00 | 3.00 | 2.50 | 5.50 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 170 | MDEA-R* (N-Methyldiethanolamine) | 105-59-9 | 150.00 | 2.00 | 2.50 | 4.50 | 24.00 | 2.00 | 44.00 | 3.00 | 5.00 | 0.00 | 9.50 |
| 171 | Dicofol #(T3) | 115-32-2 | 0.50 | 5.00 | 1.00 | 6.00 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 9.50 |
| 172 | Ethylenediamine | 107-15-3 | 20.00 | 3.00 | 2.50 | 5.50 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 173 | N,N-Dimethylaniline #(T3) | 121-69-7 | 100.00 | 3.00 | 2.50 | 5.50 | 11.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 174 | o-Toluidine #(T3) | 95-53-4 | 50.00 | 3.00 | 2.50 | 5.50 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 175 | Phosphorus | 7723-14-0 | 3.16 | 4.00 | 1.00 | 5.00 | 11.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 176 | Chlorosulfonic acid E3 | 7790-94-5 | 6.29 | 4.00 | 2.50 | 6.50 | 6.00 | 0.00 | 38.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 177 | Boron tribromide T3 | 10294-33-4 | 5.00 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 178 | Thionyl chloride-E3* | 7719-09-715 | 10.00 | 4.00 | 2.50 | 6.50 | | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 179 | Titanium tetrachloride-E3* | 7550-45-0 | 12.89 | 3.00 | 2.50 | 5.50 | 15.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 180 | Acetic anhydride #(T3) | 108-24-7 | 200.00 | 2.00 | 2.50 | 4.50 | 19.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.00 | 9.50 |
| 181 | Benzyl chloride #(E3) | 100-44-7 | 25.00 | 3.00 | 2.50 | 5.50 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 182 | Chlorobenzene | 108-90-7 | 400.00 | 2.00 | 2.50 | 4.50 | 13.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 9.50 |
| 183 | Ethyl benzene | 100-41-4 | 1800.00 | 1.00 | 2.50 | 3.50 | 21.00 | 2.00 | 51.00 | 4.00 | 6.00 | 0.00 | 9.50 |
| 184 | Furfuryl alcohol #(T3) | 98-00-0 | 75.00 | 3.00 | 2.50 | 5.50 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 185 | Hexone #(T3) | 108-10-1 | 500.00 | 2.00 | 2.50 | 4.50 | 17.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 9.50 |
| 186 | Isoamyl alcohol (primary and secondary) #(T3) | 123-51-3 | 500.00 | 2.00 | 2.50 | 4.50 | 18.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.00 | 9.50 |
| 187 | Isobutyl acetate #(T3) | 110-19-0 | 1300.00 | 1.00 | 2.50 | 3.50 | 21.00 | 2.00 | 56.00 | 4.00 | 6.00 | 0.00 | 9.50 |
| 188 | Methyl chloroformate-T3* | 79-22-1 | 4.00 | 4.00 | 2.50 | 6.50 | 2.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 189 | 2-chlorobenzoyl Chloride | 609-65-4 | 1.00 | 5.00 | 1.00 | 6.00 | 5.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 9.50 |
| 190 | Cumene | 98-82-8 | 730.00 | 2.00 | 2.50 | 4.50 | 20.00 | 2.00 | 39.00 | 3.00 | 5.00 | 0.00 | 9.50 |
| 191 | p-Nitrochlorobenzene * #(T3) | 100-00-5 | 15.52 | 3.00 | 1.00 | 4.00 | 6.00 | 0.00 | 25.00 | 3.00 | 3.00 | 2.50 | 9.50 |
| 192 | Iron, pentacarbonyl- T3 | 13463-40-6 | 0.18 | 5.00 | 2.50 | 7.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 193 | Acetone cyanohydrin, stabilized *T-3 | 75-86-5 | 15.00 | 3.00 | 2.50 | 5.50 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 194 | Acetyl Bromide *T3 | 506-96-7 | 20.00 | 3.00 | 2.50 | 5.50 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 195 | Epichlorohydrin #(1) | 106-89-8 | 75.00 | 3.00 | 2.50 | 5.50 | 15.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 196 | Ethyl ether #(T3) | 60-29-7 | 1900.00 | 1.00 | 2.50 | 3.50 | 20.00 | 2.00 | 57.00 | 4.00 | 6.00 | 0.00 | 9.50 |
| 197 | Acrylyl Chloride *T3 | 814-68-6 | 10.00 | 4.00 | 2.50 | 6.50 | 5.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 198 | Chloromethyl methyl ether E3 | 107-30-2 | 10.00 | 4.00 | 2.50 | 6.50 | 8.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 199 | Acrolein | 107-02-8 | 1.40 | 4.00 | 2.50 | 6.50 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 9.50 |
| 200 | Propylene oxide | 75-56-9 | 870.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 54.00 | 4.00 | 5.00 | 0.00 | 9.50 |
| 201 | Sodium borohydride #(T3) | 16940-66-2 | 4.85 | 4.00 | 1.00 | 5.00 | 13.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 202 | Carbon tetrachloride | 56-23-5 | 520.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 203 | Chloroform | 67-66-3 | 3200.00 | 0.00 | 2.50 | 2.50 | 20.00 | 2.00 | 81.00 | 4.00 | 6.00 | 0.50 | 9.00 |
| 204 | Deltamethrin #(I as in pyrethrum) | 52918-63-5 | 293.87 | 2.00 | 2.50 | 4.50 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 205 | Dichlorodifluoromethane #(T3) | 75-71-8 | 15000.00 | 0.00 | 5.00 | 5.00 | 14.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 206 | Phosphamidon #(T3) | 13171-21-6 | 0.49 | 5.00 | 2.50 | 7.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 9.00 |
| 207 | Sulfuryl fluoride | 2699-79-8 | 64.00 | 3.00 | 5.00 | 8.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 208 | Thiram * #(T3) | 137-26-8 | 10.20 | 3.00 | 1.00 | 4.00 | 17.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.00 | 9.00 |
| 209 | Diphenyl Ether #(T3) | 101-84-8 | 100.00 | 3.00 | 2.50 | 5.50 | 5.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 9.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 210 | Fenvalerate | 51630-58-1 | 29.11 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 48.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 211 | Methyl iodide #(E3) | 74-88-4 | 125.00 | 2.00 | 2.50 | 4.50 | 10.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 212 | Methylene chloride | 75-09-2 | 6900.00 | 0.00 | 2.50 | 2.50 | 21.00 | 2.00 | 83.00 | 4.00 | 6.00 | 0.50 | 9.00 |
| 213 | Oxalic acid * #(T3) | 144-62-7 | 135.77 | 2.00 | 1.00 | 3.00 | 16.00 | 1.00 | 106.00 | 5.00 | 6.00 | 0.00 | 9.00 |
| 214 | Phosphotungstic acid #(T3 of tungstic acid) | 12067-99-1 | 13.60 | 3.00 | 2.50 | 5.50 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 215 | Polyphosphoric acid | 68333-79-9 | 14.47 | 3.00 | 2.50 | 5.50 | 9.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 216 | TEPP * #(T3) | 107-49-3 | 0.42 | 5.00 | 2.50 | 7.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 9.00 |
| 217 | Carbonyl fluoride T3 | 353-50-4 | 20.00 | 3.00 | 5.00 | 8.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 218 | 2-Diethylaminoethanol #(I) | 100-37-8 | 100.00 | 3.00 | 2.50 | 5.50 | 0.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 219 | Bromoxynil #(T3-as naptha solution only) | 1689-84-5 | 80.00 | 3.00 | 2.50 | 5.50 | 5.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 220 | Methylene bisphenyl isocyanate * #(E3) | 101-68-8 | 2.40 | 4.00 | 1.00 | 5.00 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 221 | Tetramethylethylenediamine #(T#) | 110-18-9 | 125.00 | 2.00 | 2.50 | 4.50 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 222 | Aluminum chloride, anydrous *T3 | 7446-70-0 | 91.68 | 3.00 | 1.00 | 4.00 | 10.00 | 1.00 | 99.00 | 4.00 | 5.00 | 0.00 | 9.00 |
| 223 | Acetonitrile | 75-05-8 | 670.00 | 2.00 | 2.50 | 4.50 | 19.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 224 | Chloropicrin | 76-06-2 | 1.40 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 9.00 |
| 225 | n-Amyl acetate #(T3) | 628-63-7 | 1000.00 | 2.00 | 2.50 | 4.50 | 14.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 226 | n-Propyl alcohol #(T3) | 71-23-8 | 800.00 | 2.00 | 2.50 | 4.50 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 227 | Tetrahydrofuran #(T3) | 109-99-9 | 5000.00 | 0.00 | 2.50 | 2.50 | 21.00 | 2.00 | 65.00 | 4.00 | 6.00 | 0.50 | 9.00 |
| 228 | Chlorine pentafluoride T3 | 13637-63-3 | 60.00 | 3.00 | 5.00 | 8.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 229 | Dioxane | 123-91-1 | 760.00 | 2.00 | 2.50 | 4.50 | 12.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 9.00 |
| 230 | Methyl chloride | 74-87-3 | 3000.00 | 0.00 | 5.00 | 5.00 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 231 | 1-Butene T3 | 106-98-9 | 500000.00 | 0.00 | 5.00 | 5.00 | 15.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 232 | Perchloryl fluoride #(T3) | 7616-94-6 | 100.00 | 3.00 | 5.00 | 8.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 233 | Cyanogen T3 | 460-19-5 | 15.00 | 3.00 | 5.00 | 8.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 234 | Carbonyl sulfide T3 | 463-58-1 | 125.00 | 2.00 | 5.00 | 7.00 | 2.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 9.00 |
| 235 | Vinyl chloride-T3* | 75-01-4 | 20000.00 | 0.00 | 5.00 | 5.00 | 6.00 | 0.00 | 63.00 | 4.00 | 4.00 | 0.00 | 9.00 |
| 236 | Methyl ether-T3* | 115-10-6 | 60000.00 | 0.00 | 5.00 | 5.00 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 237 | Difluoroethane T3 | 75-37-6 | 75000.00 | 0.00 | 5.00 | 5.00 | 14.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 238 | Sodium hydrosulfite-T3* | 7775-14-6 | 35.11 | 3.00 | 1.00 | 4.00 | 20.00 | 2.00 | 48.00 | 3.00 | 5.00 | 0.00 | 9.00 |
| 239 | Stibine | 7803-52-3 | 9.60 | 4.00 | 5.00 | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 240 | Hydrazine | 302-01-2 | 35.00 | 3.00 | 2.50 | 5.50 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 9.00 |
| 241 | Germane T3 | 7782-65-2 | 150.00 | 2.00 | 5.00 | 7.00 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.00 |
| 242 | Silane-T3* | 7803-62-5 | 4000.00 | 0.00 | 5.00 | 5.00 | 16.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 243 | Ethyl nitrite T3 | 109-95-5 | 60.00 | 3.00 | 5.00 | 8.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 244 | Arsenic *T3 | 7440-38-2 | 1.63 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 245 | Bromoform #(T3) | 75-25-2 | 850.00 | 2.00 | 2.50 | 4.50 | 10.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 246 | Ethylene dibromide | 106-93-4 | 46.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 247 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 57837-19-1 | 1.63 | 4.00 | 1.00 | 5.00 | 8.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 248 | Metribuzin #(T3 as diazo compound) | 21087-64-9 | 10.98 | 3.00 | 1.00 | 4.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 8.50 |
| 249 | Phosdrin * #(T3) (Mevinphos) | 7786-34-7 | 0.44 | 5.00 | 2.50 | 7.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 250 | Potassium fluoride #(T3) | 7789-23-3 | 210.38 | 2.00 | 1.00 | 3.00 | 14.00 | 1.00 | 82.00 | 4.00 | 5.00 | 0.50 | 8.50 |
| 251 | Sodium borate | 12179-04-3 | 32.09 | 3.00 | 1.00 | 4.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 2.50 | 8.50 |
| 252 | TEDP * #(T3) | 3689-24-5 | 0.76 | 5.00 | 2.50 | 7.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 253 | Azinphosmethyl * #(T3) | 86-50-0 | 0.77 | 5.00 | 1.00 | 6.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 8.50 |
| 254 | Bismuth *T3 of BiOCl | 7440-69-9 | 47.00 | 3.00 | 1.00 | 4.00 | 15.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 8.50 |
| 255 | Mercuric nitrate | 10045-94-0 | 1.07 | 4.00 | 1.00 | 5.00 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 256 | Methidathion #(T3) | 950-37-8 | 32.35 | 3.00 | 1.00 | 4.00 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 2.50 | 8.50 |
| 257 | Methyl parathion #(T3) | 298-00-0 | 1.39 | 4.00 | 1.00 | 5.00 | 7.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 258 | 4-chlorobutyronitrile (as CN) | 628-20-6 | 25.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 259 | Barium *T3 | 7440-39-3 | 22.31 | 3.00 | 1.00 | 4.00 | 11.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.50 | 8.50 |
| 260 | Cyclohexanol #(T3) | 108-93-0 | 400.00 | 2.00 | 2.50 | 4.50 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 261 | Dichloroethyl ether #(T3) | 111-44-4 | 100.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 262 | Dimethyl acetamide #(T3) | 127-19-5 | 300.00 | 2.00 | 2.50 | 4.50 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 263 | Ethylene chlorohydrin | 107-07-3 | 12.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 264 | Methyl (n-amyl) ketone #(T3) | 110-43-0 | 800.00 | 2.00 | 2.50 | 4.50 | 11.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 265 | Monomethyl aniline #(T3) | 100-61-8 | 100.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 266 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 88-72-2; 99-08-1; 99-99-0 | 60.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 267 | Perchloromethyl mercaptan | 594-42-3 | 0.90 | 5.00 | 2.50 | 7.50 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 268 | Phenylhydrazine #(T3) | 100-63-0 | 15.00 | 3.00 | 2.50 | 5.50 | 8.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 269 | Sodium azide (#T3) | 26628-22-8 | 4.69 | 4.00 | 1.00 | 5.00 | 8.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 270 | Methylphenyldichlorosilane-T3* | 149-74-6 | 2.56 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 8.50 |
| 271 | Sulfuryl chloride-T3* | 7791-25-5 | 15.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 272 | Diethylamine #(T3) | 109-89-7 | 200.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 273 | Isoamyl acetate #(T3) | 123-92-2 | 1000.00 | 2.00 | 2.50 | 4.50 | 13.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 274 | Methyl Cellosolve (r) #(I) | 109-86-4 | 200.00 | 2.00 | 2.50 | 4.50 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 275 | N-Ethylmorpholine #(I) | 100-74-3 | 100.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 276 | n-Heptane #(T3) | 142-82-5 | 750.00 | 2.00 | 2.50 | 4.50 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 277 | n-Hexane | 110-54-3 | 8600.00 | 0.00 | 2.50 | 2.50 | 23.00 | 2.00 | 78.00 | 4.00 | 6.00 | 0.00 | 8.50 |
| 278 | Pyridine #(T3) | 110-86-1 | 1000.00 | 2.00 | 2.50 | 4.50 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 279 | Sulfur monochloride | 10025-67-9 | 15.00 | 3.00 | 2.50 | 5.50 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 280 | Triethylamine #(T3) | 121-44-8 | 200.00 | 2.00 | 2.50 | 4.50 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 281 | Cyclohexylamine T3 | 108-91-8 | 30.00 | 3.00 | 2.50 | 5.50 | 8.00 | 0.00 | 32.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 282 | Propyl chloroformate-T3* | 109-61-5 | 60.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 283 | Piperidine-T3* | 110-89-4 | 250.00 | 2.00 | 2.50 | 4.50 | 11.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 284 | Allyl alcohol | 107-18-6 | 20.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 285 | Allyl chloride | 107-05-1 | 140.00 | 2.00 | 2.50 | 4.50 | 11.00 | 1.00 | 19.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 286 | Carbon disulfide | 75-15-0 | 480.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 45.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 287 | Ethyl silicate #(E3) | 78-10-4 | 300.00 | 2.00 | 2.50 | 4.50 | 10.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 288 | Isopropylamine #(T3) | 75-31-0 | 750.00 | 2.00 | 2.50 | 4.50 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 289 | n-Pentane #(T3) | 109-66-0 | 1500.00 | 1.00 | 2.50 | 3.50 | 20.00 | 2.00 | 47.00 | 3.00 | 5.00 | 0.00 | 8.50 |
| 290 | Chloromethyl ether E3 | 542-88-1 | 0.50 | 5.00 | 2.50 | 7.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 291 | Propionitrile-T3* | 107-12-0 | 37.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 292 | Phenyltrichlorosilane-T3* | 98-13-5 | 4.62 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 8.50 |
| 293 | Diketene | 674-82-8 | 2.00 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 8.50 |
| 294 | Ethyl acrylate | 140-88-5 | 240.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 295 | Methyl acrylate #(T3) | 96-33-3 | 150.00 | 2.00 | 2.50 | 4.50 | 16.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 296 | Methyl hydrazine | 60-34-4 | 2.70 | 4.00 | 2.50 | 6.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 8.50 |
| 297 | Methyl isocyanate | 624-83-9 | 0.20 | 5.00 | 2.50 | 7.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 298 | Methyl methacrylate | 80-62-6 | 570.00 | 2.00 | 2.50 | 4.50 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 299 | Methyltrichlorosilane-E3* | 75-79-6 | 15.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 300 | Dimethyldichlorosilane T3 | 75-78-5 | 75.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 301 | Acetyl Chloride *T3 | 75-36-5 | 125.00 | 2.00 | 2.50 | 4.50 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 302 | Vinyl acetate monomer-E3* | 108-05-4 | 500.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 53.00 | 4.00 | 4.00 | 0.00 | 8.50 |
| 303 | Acetaldehyde | 75-07-0 | 840.00 | 2.00 | 2.50 | 4.50 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 304 | Trichlorosilane-E3* | 10025-78-2 | 25.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 8.50 |
| 305 | Nickel Carbonyl-T3* | 13463-39-3 | 0.16 | 5.00 | 2.50 | 7.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 306 | Trinitrotoluene | 118-96-7 | 55.32 | 3.00 | 1.00 | 4.00 | 11.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 8.50 |
| 307 | Diethyleneglycol dinitrate F | 693-21-0 | 0.31 | 5.00 | 2.50 | 7.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 308 | 2 Aminopyridine #(I) | 504-29-0 | 5.00 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 309 | 2,4-D * #(T3) | 94-75-7 | 11.06 | 3.00 | 1.00 | 4.00 | 15.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 310 | Carbaryl * #(T3) | 63-25-2 | 12.15 | 3.00 | 1.00 | 4.00 | 10.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 311 | Demeton * #(T3) (Systox) | 8065-48-3 | 0.95 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 8.00 |
| 312 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 528-29-0; 99-65-0; 100-25-4 | 7.27 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 313 | p-Anisidine * #(T3) | 104-94-9 | 9.93 | 4.00 | 1.00 | 5.00 | 5.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 314 | Pentachlorophenol * #(T3) | 87-86-5 | 0.23 | 5.00 | 1.00 | 6.00 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 8.00 |
| 315 | Warfarin * #(T3) | 81-81-2 | 1.60 | 4.00 | 1.00 | 5.00 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 316 | Dinitrogen tetroxide T3 | 10544-72-6 | 20.00 | 3.00 | 5.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 |
| 317 | Nitrogen trioxide-T3* | 10544-73-7 | 500.00 | 2.00 | 5.00 | 7.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.00 |
| 318 | 2,6-di-tert-butyl-p-cresol *T3 | 128-37-0 | 44.45 | 3.00 | 1.00 | 4.00 | 13.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 319 | 2-chloroacetophenone *IDLH | 532-27-4 | 2.38 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 320 | Di-syston #(T3) | 298-04-4 | 6.68 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 8.00 |
| 321 | Hydroquinone * #(T3) | 123-31-9 | 11.10 | 3.00 | 1.00 | 4.00 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 322 | Oxydemeton-methyl #(I) | 301-12-2 | 3.97 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 8.00 |
| 323 | Trichloroethylene | 79-01-6 | 3800.00 | 0.00 | 2.50 | 2.50 | 17.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.50 | 8.00 |
| 324 | 1-methyl imidazole LD50 | 616-47-7 | 417.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 22.00 | 3.00 | 3.00 | 0.50 | 8.00 |
| 325 | 2-thiophenecarbonitrile (as CN) | 1003-31-2 | 25.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 8.00 |
| 326 | Bromobenzene #(T3) | 108-86-1 | 350.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 34.00 | 3.00 | 3.00 | 0.50 | 8.00 |
| 327 | Camphor (synthetic) * #(T3) | 76-22-2 | 32.11 | 3.00 | 1.00 | 4.00 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 328 | Phosphorus pentachloride * #(T3) | 10026-13-8 | 8.22 | 4.00 | 1.00 | 5.00 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 329 | Quinone #(T3) | 106-51-4 | 22.60 | 3.00 | 1.00 | 4.00 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 330 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 70788-37-3 | 70.99 | 3.00 | 2.50 | 5.50 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 8.00 |
| 331 | Sulfur trioxide-E3* | 7446-11-9 | 9.16 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 332 | Potassium chlorate | 3811-04-9 | 69.83 | 3.00 | 1.00 | 4.00 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 333 | Ethyl bromide #(T3) | 74-96-4 | 1500.00 | 1.00 | 2.50 | 3.50 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 8.00 |
| 334 | Phosphorus pentasulfide * #(T3) | 1314-80-3 | 27.50 | 3.00 | 1.00 | 4.00 | 12.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 335 | Thioglycol TEEL-3 | 60-24-2 | 200.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.50 | 8.00 |
| 336 | Acrylamide * #(T3) | 79-06-1 | 20.64 | 3.00 | 1.00 | 4.00 | 14.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 8.00 |
| 337 | Ethyl chloride #(T3) | 75-00-3 | 3800.00 | 0.00 | 5.00 | 5.00 | 8.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 338 | Tetraethyl lead #(T3) | 78-00-2 | 4.51 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 8.00 |
| 339 | 1,1-Dimethylhydrazine | 57-14-7 | 11.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 8.00 |
| 340 | 2-methylpropene-T3* | 115-11-7 | 100000.00 | 0.00 | 5.00 | 5.00 | 3.00 | 0.00 | 40.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 341 | Trinitrophenol-T3* | 88-89-1 | 8.00 | 4.00 | 1.00 | 5.00 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 342 | Aluminum phosphide *T3 | 20859-73-8 | 8.44 | 4.00 | 1.00 | 5.00 | 2.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 343 | Nitromethane #(T3) | 75-52-5 | 750.00 | 2.00 | 2.50 | 4.50 | 7.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 8.00 |
| 344 | Trifluorochloroethylene-E3* | 79-38-9 | 300.00 | 2.00 | 5.00 | 7.00 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 8.00 |
| 345 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 100.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 7.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 346 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 76-13-1 | 2000.00 | 1.00 | 2.50 | 3.50 | 12.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 347 | Boron *T3 of B2O3 | 7440-42-8 | 175.00 | 2.00 | 1.00 | 3.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 7.50 |
| 348 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 69327-76-0 | 20.00 | 3.00 | 1.00 | 4.00 | 5.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 349 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 39515-41-8 | 25.00 | 3.00 | 1.00 | 4.00 | 3.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 350 | Iron phosphate #(T3 as iron) | 10045-86-0 | 214.47 | 2.00 | 1.00 | 3.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 2.50 | 7.50 |
| 351 | Methamidophos | 10265-92-6 | 10.39 | 3.00 | 1.00 | 4.00 | 9.00 | 0.00 | 45.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 352 | Sodium fluoroacetate #(T3) | 62-74-8 | 0.61 | 5.00 | 1.00 | 6.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 7.50 |
| 353 | Sulfur pentafluoride #(T3) | 5714-22-7 | 1.00 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 |
| 354 | Tetrachloroethylene | 127-18-4 | 1200.00 | 1.00 | 2.50 | 3.50 | 17.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 355 | Trithion | 786-19-6 | 0.49 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 |
| 356 | 1,1,2-Trichloroethane #(T3) | 79-00-5 | 100.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 357 | alpha-Chloroacetophenone * #(I) | 532-27-4 | 2.37 | 4.00 | 1.00 | 5.00 | 3.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 7.50 |
| 358 | Bifenthrin Tox est. on Pyr. | 82657-04-3 | 20.00 | 3.00 | 1.00 | 4.00 | 5.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 359 | Biphenyl * #(T3) | 92-52-4 | 15.80 | 3.00 | 1.00 | 4.00 | 7.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 360 | guanidine hydrochloride | 50-01-1 | 51.28 | 3.00 | 1.00 | 4.00 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 361 | Mancozeb | 8018-01-7 | 146.00 | 2.00 | 1.00 | 3.00 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 7.50 |
| 362 | Phenamiphos #(T3) | 22224-92-6 | 3.22 | 4.00 | 1.00 | 5.00 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 7.50 |
| 363 | Thiophanate methyl #(T3 of carbamate fungicides) | 23564-05-8 | 11.00 | 3.00 | 1.00 | 4.00 | 8.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.50 | 7.50 |
| 364 | Triethanolamine-T3* | 102-71-6 | 81.94 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 365 | Antimony Pentafluoride T3 | 7783-70-2 | 8.46 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 366 | 2-Butoxyethanol #(T3) | 111-76-2 | 700.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 43.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 367 | 2-Ethoxyethanol #(T3) | 110-80-5 | 500.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 31.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 368 | 2-Ethoxyethyl acetate #(T3) | 111-15-9 | 500.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 369 | Allyl glycidyl ether #(I) | 106-92-3 | 50.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 370 | Chloroacetaldehyde | 107-20-0 | 9.90 | 4.00 | 2.50 | 6.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 371 | Diacetone alcohol #(T3) | 123-42-2 | 1800.00 | 1.00 | 2.50 | 3.50 | 11.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 372 | Dibutyl phosphate #(T3) | 107-66-4 | 30.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 373 | Diisobutyl ketone #(T3) | 108-83-8 | 200.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 374 | Methyl isobutyl carbinol #(I) | 108-11-2 | 400.00 | 2.00 | 2.50 | 4.50 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 375 | n-Butyl glycidyl ether #(T3) | 2426-08-6 | 250.00 | 2.00 | 2.50 | 4.50 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 376 | o-Dichlorobenzene #(T3) | 95-50-1 | 200.00 | 2.00 | 2.50 | 4.50 | 9.00 | 0.00 | 37.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 377 | p-tert-Butyltoluene #(I) | 98-51-1 | 100.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 378 | Triethyl phosphite-T3* | 122-52-1 | 200.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 379 | Iodine pentafluoride F | 7783-66-6 | 98.07 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 380 | 1,2,3-Trichloropropane #(T3) | 96-18-4 | 100.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 381 | 2-Butanone | 78-93-3 | 4000.00 | 0.00 | 2.50 | 2.50 | 18.00 | 1.00 | 63.00 | 4.00 | 5.00 | 0.00 | 7.50 |
| 382 | Chlorodiphenyl (42% chlorine)* #(T3) | 53469-21-9 | 0.47 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 |
| 383 | Diisopropylamine #(T3) | 108-18-9 | 200.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 384 | Isophorone #(T3) | 78-59-1 | 200.00 | 2.00 | 2.50 | 4.50 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 385 | Isopropyl acetate #(T3) | 108-21-4 | 1800.00 | 1.00 | 2.50 | 3.50 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 386 | n-Butylamine #(T3) | 109-73-9 | 300.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 387 | n-Propyl acetate #(I) | 109-60-4 | 1700.00 | 1.00 | 2.50 | 3.50 | 12.00 | 1.00 | 31.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 388 | Octane #(T3) | 111-65-9 | 1000.00 | 2.00 | 2.50 | 4.50 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 389 | Phenyl glycidyl ether #(I) | 122-60-1 | 100.00 | 3.00 | 2.50 | 5.50 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 390 | Propylene dichloride #(T3) | 78-87-5 | 400.00 | 2.00 | 2.50 | 4.50 | 9.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 391 | sec-Butyl alcohol #(T3) | 78-92-2 | 2000.00 | 1.00 | 2.50 | 3.50 | 12.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 392 | tert-Butyl alcohol #(T3) | 75-65-0 | 1600.00 | 1.00 | 2.50 | 3.50 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 393 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 78-53-5 | 0.30 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 |
| 394 | Ethyl phosphonothioic dichloride F | 993-43-1 | 7.50 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 395 | Fluorosulfonic acid T3 | 7789-21-1 | 7.33 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 396 | Isopropyl ether #(T3) | 108-20-3 | 1400.00 | 1.00 | 2.50 | 3.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 7.50 |
| 397 | Allylamine *T3 | 107-11-9 | 18.00 | 3.00 | 2.50 | 5.50 | 5.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 398 | Trimethyl phosphite-T3* | 121-45-9 | 750.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 399 | Ethyltrichlorosilane T3 | 115-21-9 | 6.00 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 400 | Boron trifluoride compound with methyl ether (1:1) T3 | 353-42-4 | 7.50 | 4.00 | 2.50 | 6.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 401 | Crotonaldehyde | 4170-30-3 | 14.00 | 3.00 | 2.50 | 5.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 402 | Tetranitromethane | 509-14-8 | 1.70 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 403 | Tetramethylsilane-T3* | 75-76-3 | 125.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 404 | Trimethylchlorosilane-E3* | 75-77-44 | 150.00 | 2.00 | 2.50 | 4.50 | | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 405 | Diglycidyl ether #(T3) | 2238-07-5 | 10.00 | 4.00 | 2.50 | 6.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 406 | Ethyleneimine | 151-56-4 | 9.90 | 4.00 | 2.50 | 6.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 407 | Pentaborane | 19624-22-7 | 0.70 | 5.00 | 2.50 | 7.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.50 |
| 408 | Vinylidene chloride, inhibited-T3* | 75-35-4 | 600.00 | 2.00 | 2.50 | 4.50 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 409 | Tetramethyllead-T3* | 75-74-1 | 4.57 | 4.00 | 2.50 | 6.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.50 |
| 410 | Pentaerythrite tetranitrate #(T3) | 78-11-5 | 38.97 | 3.00 | 1.00 | 4.00 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 7.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 411 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 76-11-9 | 2000.00 | 1.00 | 5.00 | 6.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 412 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 76-12-0 | 2000.00 | 1.00 | 5.00 | 6.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 413 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 118-52-5 | 62.06 | 3.00 | 1.00 | 4.00 | 3.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 7.00 |
| 414 | Chloroform-D | 865-49-6 | 500.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 7.00 |
| 415 | Dichlorotetrafluoroethane #(T3) | 76-14-2 | 15000.00 | 0.00 | 5.00 | 5.00 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 416 | Difethialone (T3 based on warfarin) | 104653-34-1 | 0.67 | 5.00 | 1.00 | 6.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 417 | Dinitrocresol * #(T3) | 534-52-1 | 0.62 | 5.00 | 1.00 | 6.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 418 | Endrin * #(T3) | 72-20-8 | 0.13 | 5.00 | 1.00 | 6.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 419 | EPN * #(T3) | 2104-64-5 | 0.38 | 5.00 | 1.00 | 6.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 420 | Profenofos #(I) | 41198-08-7 | 1600.00 | 1.00 | 2.50 | 3.50 | 4.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 7.00 |
| 421 | Thallium sulfate #(T3 of Tl) | 7446-18-6 | 1.77 | 4.00 | 1.00 | 5.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 422 | Trifluorobromomethane #(T3) | 75-63-8 | 40000.00 | 0.00 | 5.00 | 5.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 423 | Nitrogen mustard hydrochloride-T3* | 55-86-7 | 0.51 | 5.00 | 1.00 | 6.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 424 | Halothane (T:V) | 151-67-7 | 50.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 7.00 |
| 425 | Triphenyl phosphate* | 115-86-6 | 37.47 | 3.00 | 1.00 | 4.00 | 5.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 7.00 |
| 426 | p-Dichlorobenzene #(T3) | 106-46-7 | 150.00 | 2.00 | 1.00 | 3.00 | 10.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 7.00 |
| 427 | Potassium perchlorate-T3* | 7778-74-7 | 88.24 | 3.00 | 1.00 | 4.00 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 7.00 |
| 428 | o-Chlorobenzylidene malononitrile * #(T3) | 2698-41-1 | 0.26 | 5.00 | 1.00 | 6.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.00 |
| 429 | p-Nitroaniline * #(T3) | 100-01-6 | 53.10 | 3.00 | 1.00 | 4.00 | 5.00 | 0.00 | 47.00 | 3.00 | 3.00 | 0.00 | 7.00 |
| 430 | Dinitrotoluene * #(T3) | 25321-14-6 | 6.70 | 4.00 | 1.00 | 5.00 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 431 | 2-Butene T3 | 107-01-7 | 300.00 | 2.00 | 5.00 | 7.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.00 |
| 432 | 2-Butene-trans T3 | 624-64-6 | 25000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 433 | 2-Butene-cis T3 | 590-18-1 | 500000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 434 | Propadiene-T3* | 463-49-0 | 4000.00 | 0.00 | 5.00 | 5.00 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 435 | Vinylidene fluoride-T3* | 75-38-7 | 12500.00 | 0.00 | 5.00 | 5.00 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 436 | Tetrafluoroethylene-E3* | 116-14-3 | 10000.00 | 0.00 | 5.00 | 5.00 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 437 | Aldicarb *T# | 116-06-3 | 12.87 | 3.00 | 1.00 | 4.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 6.50 |
| 438 | Antimony oxide *T3 | 1309-64-4 | 6.43 | 4.00 | 1.00 | 5.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 439 | Crag (r) herbicide #(T3) | 136-78-7 | 39.55 | 3.00 | 1.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 6.50 |
| 440 | Cyanide | 57-12-5 | 25.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 441 | Pirimicarb #(T3 as carbamate ester) | 5947-49-9 | 1.63 | 4.00 | 1.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 442 | Thallium #(T3) | 7440-28-0 | 1.77 | 4.00 | 1.00 | 5.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 443 | Chlorobromomethane #(T3) | 74-97-5 | 2000.00 | 1.00 | 2.50 | 3.50 | 7.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 444 | Methyl chloroform | 71-55-6 | 4200.00 | 0.00 | 2.50 | 2.50 | 14.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 445 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 126-33-0 | 150.00 | 2.00 | 2.50 | 4.50 | 5.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 446 | Xylidine #(T3) | 1300-73-8 | 50.00 | 3.00 | 2.50 | 5.50 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 447 | Arsenic trichloride T3 | 7784-34-1 | 12.50 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 448 | 1,2-dimethylimidazole LD50 | 1739-84-0 | 417.00 | 2.00 | 1.00 | 3.00 | 5.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 6.50 |
| 449 | 5-Methyl 3-heptanone #(I) | 541-85-5 | 100.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 450 | Chlordane * #(T3) | 57-74-9 | 5.97 | 4.00 | 2.50 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 |
| 451 | Mercury oxycyanide as Hg | 1335-31-5 | 1.08 | 4.00 | 1.00 | 5.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 452 | tert-Butyl chromate #(I) | 1189-85-1 | 1.59 | 4.00 | 2.50 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 |
| 453 | Trypan blue #(T3) | 72-57-1 | 14.02 | 3.00 | 1.00 | 4.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 6.50 |
| 454 | Butyltrichlorosilane SC | 7521-80-4 | 33.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 455 | Octyltrichlorosilane-A3* (60min) | 5283-66-9 | 33.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 456 | 2-Pentanone #(T3) | 107-87-9 | 1500.00 | 1.00 | 2.50 | 3.50 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 457 | Cyclohexene #(T3) | 110-83-8 | 2000.00 | 1.00 | 2.50 | 3.50 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 458 | Ethyl formate #(I) | 109-94-4 | 1500.00 | 1.00 | 2.50 | 3.50 | 6.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 459 | Glycidol #(I) | 556-52-5 | 150.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 460 | Methyl acetate #(I) | 79-20-9 | 3100.00 | 0.00 | 2.50 | 2.50 | 15.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 461 | Methylcyclohexane #(T3) | 108-87-2 | 1200.00 | 1.00 | 2.50 | 3.50 | 9.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 462 | n-Butyl mercaptan #(T3) | 109-79-5 | 500.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 463 | Turpentine #(T3) | 8006-64-2 | 800.00 | 2.00 | 2.50 | 4.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 464 | Isobutyronitrile-E3* | 78-82-0 | 200.00 | 2.00 | 2.50 | 4.50 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 465 | Methyl thiocyanate-T3* | 1556-64-9 | 28.40 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 466 | Dodecyltrichlorosilane S( | 4484-72-41 | 33.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 467 | Bromine pentafluoride T: | 7789-30-2 | 35.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 468 | Bromine trifluoride T3 | 7787-71-5 | 89.30 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 469 | beta-Chloroprene #(T3) | 126-99-8 | 300.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 470 | Ethylene glycol dinitrate #(I) | 628-96-6 | 12.06 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 471 | Lithium #(T3) | 7439-93-2 | 1409.20 | 1.00 | 1.00 | 2.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 6.50 |
| 472 | Methylal #(T3) | 109-87-5 | 2200.00 | 0.00 | 2.50 | 2.50 | 10.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 473 | tert-Butyl acetate #(T3) | 540-88-5 | 1500.00 | 1.00 | 2.50 | 3.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.50 |
| 474 | Isopentane-T3* | 78-78-4 | 20000.00 | 0.00 | 2.50 | 2.50 | 17.00 | 1.00 | 29.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 475 | Propyltrichlorosilane-A3* (60 min) | 141-57-1 | 33.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 476 | Hexyltrichlorosilane T: | 928-65-4 | 33.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 477 | Octadecyltrichlorosilane-A3* (60min) | 112-04-9 | 33.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 478 | 2-Nitropropane #(T3) | 79-46-9 | 100.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 479 | Furan T3 | 110-00-9 | 19.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 480 | Crotonaldehyde, (E)- T3 | 123-73-9 | 14.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 481 | Allyltrichlorosilane, stabilized as allyl chloride | 107-37-9 | 20.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 482 | Methacrylonitrile-T3* | 126-98-7 | 25.00 | 3.00 | 2.50 | 5.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 483 | 1,3- pentadiene-R*B97 | 504-60-9 | 280.00 | 2.00 | 2.50 | 4.50 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 484 | Nitroethane #(T3) | 79-24-3 | 1000.00 | 2.00 | 2.50 | 4.50 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 485 | Propylene imine | 75-55-8 | 23.00 | 3.00 | 2.50 | 5.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 486 | Dichloromonofluoromethane #(T3) | 75-43-4 | 5000.00 | 0.00 | 5.00 | 5.00 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 487 | Ferbam * #(I) | 14484-64-1 | 15.00 | 3.00 | 1.00 | 4.00 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 6.00 |
| 488 | Graphite #(T3) | 7782-42-5 | 1017.90 | 1.00 | 1.00 | 2.00 | 16.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 6.00 |
| 489 | Heptachlor * #(T3) | 76-44-8 | 2.29 | 4.00 | 1.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 490 | Hexachloroethane #(T3) | 67-72-1 | 300.00 | 2.00 | 1.00 | 3.00 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 6.00 |
| 491 | Hexachloronaphthalene * #(T3) | 1335-87-1 | 0.15 | 5.00 | 1.00 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.00 |
| 492 | Ammonium sulfamate * #(T3) | 7773-06-0 | 107.10 | 2.00 | 1.00 | 3.00 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 6.00 |
| 493 | Dipropylene glycol methyl ether #(T3) | 34590-94-8 | 400.00 | 2.00 | 1.00 | 3.00 | 7.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.00 | 6.00 |
| 494 | Isoflurane #(IDLH of halgenated ethers-general) | 26675-46-7 | 2000.00 | 1.00 | 2.50 | 3.50 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.50 | 6.00 |
| 495 | Methyl Cellosolve (r) acetate #(I) | 110-49-6 | 200.00 | 2.00 | 1.00 | 3.00 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 6.00 |
| 496 | Calcium phosphide SC | 1305-99-3 | 1.80 | 4.00 | 1.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 497 | Aluminum bromide, anydrous as AlCl3 | 7727-15-3 | 44.84 | 3.00 | 1.00 | 4.00 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.00 |
| 498 | Decaborane * #(T3) | 17702-41-9 | 3.00 | 4.00 | 1.00 | 5.00 | 2.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 499 | Morpholine #(T3) | 110-91-8 | 1400.00 | 1.00 | 1.00 | 2.00 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 6.00 |
| 500 | Dimethylpropane, 2,2- T3 | 463-82-1 | 50000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 501 | Cyclopropane T3 | 75-19-4 | 60000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 502 | Ammonium perchlorate T3 | 7790-98-9 | 104.05 | 2.00 | 1.00 | 3.00 | 2.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 6.00 |
| 503 | Lithium nitride-T3* | 26134-62-3 | 7.02 | 4.00 | 1.00 | 5.00 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 504 | Vinyl fluoride-T3* | 75-02-5 | 150000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 505 | Magnesium phosphide- Rentokil MSDS* | 12057-74-8 | 2.40 | 4.00 | 1.00 | 5.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 506 | Vinyl methyl ether-R* | 107-25-5 | 64000.00 | 0.00 | 5.00 | 5.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 507 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 18810-58-7 | 1.38 | 4.00 | 1.00 | 5.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 508 | Ethyl acetylene (as ethylene | 107-00-6 | 15000.00 | 0.00 | 5.00 | 5.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 509 | Aldrin * #(T3) | 309-00-2 | 1.68 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 510 | DDT * #(T3) | 50-29-3 | 34.49 | 3.00 | 1.00 | 4.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 5.50 |
| 511 | Dieldrin * #(T3) | 60-57-1 | 3.21 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 512 | Mercuric Salicylate #(T3 of Hg) | 5970-32-1 | 1.08 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 513 | Toxaphene #(T3 based on Keplinger 1963 study) | 8001-35-2 | 29.53 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 5.50 |
| 514 | Aqua Regia *T3 | 8007-56-5 | 35.01 | 3.00 | 2.50 | 5.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 |
| 515 | Hexachlorobenzene | 118-74-1 | 17.17 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 5.50 |
| 516 | Mercuric arsenate #(T3 of Hg) | 7784-37-4 | 1.08 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 517 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8003-34-7 | 326.87 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 518 | Thiodiglycol-Alfa MSDS*B71 | 111-48-8 | 4150.00 | 0.00 | 2.50 | 2.50 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 519 | Cyclopentadiene #(I) | 542-92-7 | 750.00 | 2.00 | 2.50 | 4.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 520 | Ethyl butyl ketone #(T3) | 106-35-4 | 1000.00 | 2.00 | 2.50 | 4.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 521 | Methylcyclohexanol #(I) | 25639-42-3 | 500.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 522 | o-Methylcyclohexanone #(T3) | 583-60-8 | 600.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 523 | sec-Amyl acetate #(T3) | 626-38-0 | 1000.00 | 2.00 | 2.50 | 4.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 524 | Mesityl oxide #(T3) | 141-79-7 | 1400.00 | 1.00 | 2.50 | 3.50 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.50 |
| 525 | Methyl formate #(T3) | 107-31-3 | 4500.00 | 0.00 | 2.50 | 2.50 | 8.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 526 | Vinyl toluene #(I) | 25013-15-4 | 400.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 527 | Isoproyl chloride-T3* | 75-29-6 | 15000.00 | 0.00 | 2.50 | 2.50 | 1.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 528 | Amyltrichlorosilane R | 107-72-2 | 500.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 529 | 1,2-Dichloroethylene #(T3) | 540-59-0 | 1000.00 | 2.00 | 2.50 | 4.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 530 | 1-Chloro-1-nitropropane #(I) | 600-25-9 | 100.00 | 3.00 | 2.50 | 5.50 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 |
| 531 | 1-Nitropropane #(I) | 108-03-2 | 1000.00 | 2.00 | 2.50 | 4.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 532 | Ethyl mercaptan | 75-08-1 | 360.00 | 2.00 | 2.50 | 4.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 533 | Isopropyl glycidyl ether #(I) | 4016-14-2 | 400.00 | 2.00 | 2.50 | 4.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 534 | Methyldichlorosilane-R* | 75-54-7 | 1200.00 | 1.00 | 2.50 | 3.50 | 2.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 5.50 |
| 535 | Vinyltrichlorosilane-R* | 75-94-5 | 2000.00 | 1.00 | 2.50 | 3.50 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.50 |
| 536 | Acetyl Iodide (as acetyl bromide) T3 | 507-02-8 | 20.00 | 3.00 | 2.50 | 5.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.50 |
| 537 | Vinyl ethyl ether-T3* | 109-92-2 | 1500.00 | 1.00 | 2.50 | 3.50 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.50 |
| 538 | Isoprene-T3* | 78-79-5 | 25000.00 | 0.00 | 2.50 | 2.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 539 | Methyl acetylene #(T3) | 74-99-7 | 1700.00 | 1.00 | 2.50 | 3.50 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 5.50 |
| 540 | 2,4,5-T * #(T3) | 93-76-5 | 23.92 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Physical State | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 541 | ANTU * #(T3) | 86-88-4 | 12.10 | 3.00 | 1.00 | 4.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 542 | Bromodiolone (Rat Inh. LC50) | 54149-17-6 | 23.20 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 543 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 300-76-5 | 12.83 | 3.00 | 1.00 | 4.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 544 | Methoxychlor * #(T3) | 72-43-5 | 35.37 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 545 | Pindone * #(I) | 83-26-1 | 10.62 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 546 | Rotenone * #(T3) | 83-79-4 | 30.99 | 3.00 | 1.00 | 4.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 547 | Tetryl * #(T3) | 479-45-8 | 42.57 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 548 | Chlorinated camphene * #(T3) | 8001-35-2 | 11.80 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 549 | Terphenyls * #(I) | 92-06-8; 84-15-1; 92-94-4 | 53.08 | 3.00 | 1.00 | 4.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 550 | Tetramethyl succinonitrile #(I) | 3333-52-6 | 5.00 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 551 | Trinitrochlorobenzene-T3* | 88-88-0 | 24.69 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 552 | Ammonium Picrate T3 | 131-74-8 | 24.83 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 553 | HMX T3 | 2691-41-0 | 41.28 | 3.00 | 1.00 | 4.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.00 |
| 554 | Dinitrophenol, Dry or wet T3 | 25550-58-7 (51-28-5) | 3.32 | 4.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 555 | Azinphos-ethyl *T3 | 2642-71-9 | 10.63 | 3.00 | 1.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 4.50 |
| 556 | Difluorodibromomethane #(I) | 75-61-6 | 2000.00 | 1.00 | 2.50 | 3.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.50 |
| 557 | sec Hexyl acetate #(I) | 108-84-9 | 500.00 | 2.00 | 2.50 | 4.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 |
| 558 | 2-Hexanone #(T3) | 591-78-6 | 1600.00 | 1.00 | 2.50 | 3.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.50 |
| 559 | sec-Butyl acetate #(T3) | 105-46-4 | 1500.00 | 1.00 | 2.50 | 3.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.50 |
| 560 | 2-Chloropropylene T3 | 557-98-2 | 35000.00 | 0.00 | 2.50 | 2.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 561 | Ronnel #(I) | 299-84-3 | 22.81 | 3.00 | 1.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.00 |
| 562 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 22160-08-3 | 110.00 | 2.00 | 1.00 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 3.50 |
| 563 | Methoxyflurane #(IDLH of halgenated ethers-general) | 76-38-0 | 2000.00 | 1.00 | 1.00 | 2.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 3.50 |
| 564 | 1,1-Dichloroethane #(T3) | 75-34-3 | 3000.00 | 0.00 | 2.50 | 2.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 565 | 1-Chloropropylene R | 590-21-6 | 8000.00 | 0.00 | 2.50 | 2.50 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 566 | 1-pentene-T3* | 109-67-1 | 30000.00 | 0.00 | 2.50 | 2.50 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 567 | 2-Methyl-1-butene-T3* | 563-46-2 | 500000.00 | 0.00 | 2.50 | 2.50 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 568 | Diethyldichlorosilane R | 1719-53-5 | 4668.58 | 0.00 | 2.50 | 2.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 569 | n-Propyl nitrate #(T3) | 627-13-4 | 1160.00 | 1.00 | 2.50 | 3.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.50 |
| 570 | Vinyl acetylene-R* | 689-97-4 | 105000.00 | 0.00 | 2.50 | 2.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 3.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Chlorine | 7782-50-5 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 2 | Sulfuric acid | 7664-93-9 | 7.47 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 3 | Calcium Carbonate #(T3) | 471-34-1 | 3.66 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 4 | Ammonia | 7664-41-7 | 1100.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 5 | Hydrogen chloride | 7647-01-0 | 100.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 6 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 5.00 |
| 7 | Hydrogen fluoride | 7664-39-3 | 44.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 8 | Mercury | 7439-97-6 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 9 | Phosgene | 75-44-5 | 0.75 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 10 | Calcium chloride | 10043-52-4 | 88.19 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 11 | Copper sulfate #(T3) | 7758-98-7 | 3.92 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 12 | Nitric acid | 7697-37-2 | 92.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 13 | Arsenic Trioxide | 1327-53-3 | 1.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 14 | Sodium Sulfate #(T3) | 7757-82-6 | 21.52 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 15 | Sulfur dioxide | 7446-09-5 | 30.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 16 | OMPA | 152-16-9 | 0.30 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 17 | Sodium hydroxide #(E3) | 1310-73-2 | 30.56 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 18 | Dibasic sodium phosphate | 10039-32-4 | 25.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 19 | Chlorpyrifos #(T3) | 2921-88-2 | 5.23 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 20 | Ammonium Chloride | 12125-02-9 | 228.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 21 | Lindane * #(T3) | 58-89-9 | 4.20 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 22 | Selenium hexafluoride | 7783-79-1 | 0.26 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 23 | Potassium dichromate #(T3) | 7778-50-9 | 3.32 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 24 | Phosphoryl Trichloride | 10025-87-3 | 0.85 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 25 | Silica #(T3) | 7631-86-9 | 203.72 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 26 | Sodium bicarbonate #(T3) | 144-55-8 | 145.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 27 | Sodium cyanide #(T3) | 143-33-9 | 19.96 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 28 | Potassium ferrocyanide #(T3) | 13943-58-3 | 3.42 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 29 | Kerosene #(T3) | 8008-20-6 | 57.53 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 30 | Sodium Nitrate #(T3) | 7631-99-4 | 28.77 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 31 | Hydrogen peroxide #(E3) | 7722-84-1 | 100.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 32 | Gypsum #(T3 as K2CO3) | 13397-24-5 | 88.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 33 | Methomyl | 16752-77-5 | 30.13 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 34 | Nitric oxide #(I) | 10102-43-9 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 35 | Chloroacetyl chloride E3 | 79-04-9 | 10.00 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 36 | Calcium Hydroxide #(T3) | 1305-62-0 | 165.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 37 | Diethylene glycol | 111-46-6 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.00 |
| 38 | Silver nitrate #(T3) | 7761-88-8 | 2.17 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 39 | Acetic acid #(T3) | 64-19-7 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 40 | Aniline | 62-53-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 41 | Toluene-2,4-diisocyanate | 584-84-9 | 0.51 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 42 | Magnesium Oxide #(T3) | 1309-48-4 | 303.35 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 43 | Sodium dodecyl sulfate #(T3) | 151-21-3 | 42.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 44 | Zinc | 7440-66-6 | 74.79 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 45 | Bromine | 7726-95-6 | 8.50 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 46 | Carbendazim | 10605-21-7 | 3.25 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 47 | Chlorine dioxide | 10049-04-4 | 2.40 | 4.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 16.00 | 63.00 | 5.00 | 344.00 | 5.00 | 10.00 | 5.00 | 31.00 |
| 2 | Sulfuric acid | 14.25 | 66.00 | 5.00 | 544.00 | 5.00 | 10.00 | 2.50 | 26.75 |
| 3 | Calcium Carbonate #(T3) | 14.00 | 52.00 | 5.00 | 309.00 | 5.00 | 10.00 | 2.50 | 26.50 |
| 4 | Ammonia | 11.38 | 56.00 | 5.00 | 348.00 | 5.00 | 10.00 | 5.00 | 26.38 |
| 5 | Hydrogen chloride | 15.38 | 63.00 | 5.00 | 528.00 | 5.00 | 10.00 | 0.50 | 25.88 |
| 6 | Formaldehyde (Formalin solution-37% methanol) E3 | 14.75 | 53.00 | 5.00 | 260.00 | 5.00 | 10.00 | 0.50 | 25.25 |
| 7 | Hydrogen fluoride | 15.38 | 25.00 | 2.00 | 138.00 | 5.00 | 7.00 | 2.50 | 24.88 |
| 8 | Mercury | 15.50 | 14.00 | 1.00 | 24.00 | 3.00 | 4.00 | 5.00 | 24.50 |
| 9 | Phosgene | 19.38 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 23.88 |
| 10 | Calcium chloride | 12.00 | 43.00 | 4.00 | 208.00 | 5.00 | 9.00 | 2.50 | 23.50 |
| 11 | Copper sulfate #(T3) | 14.00 | 29.00 | 2.00 | 188.00 | 5.00 | 7.00 | 2.50 | 23.50 |
| 12 | Nitric acid | 13.50 | 49.00 | 4.00 | 226.00 | 5.00 | 9.00 | 0.50 | 23.00 |
| 13 | Arsenic Trioxide | 14.00 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 5.00 | 23.00 |
| 14 | Sodium Sulfate #(T3) | 12.00 | 36.00 | 3.00 | 200.00 | 5.00 | 8.00 | 2.50 | 22.50 |
| 15 | Sulfur dioxide | 16.00 | 27.00 | 2.00 | 79.00 | 4.00 | 6.00 | 0.00 | 22.00 |
| 16 | OMPA | 17.50 | 11.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 22.00 |
| 17 | Sodium hydroxide #(E3) | 11.38 | 64.00 | 5.00 | 477.00 | 5.00 | 10.00 | 0.50 | 21.88 |
| 18 | Dibasic sodium phosphate | 12.00 | 22.00 | 2.00 | 125.00 | 5.00 | 7.00 | 2.50 | 21.50 |
| 19 | Chlorpyrifos #(T3) | 14.00 | 17.00 | 1.00 | 71.00 | 4.00 | 5.00 | 2.50 | 21.50 |
| 20 | Ammonium Chloride | 9.38 | 25.00 | 2.00 | 141.00 | 5.00 | 7.00 | 5.00 | 21.38 |
| 21 | Lindane * #(T3) | 14.00 | 3.00 | 0.00 | 9.00 | 2.00 | 2.00 | 5.00 | 21.00 |
| 22 | Selenium hexafluoride | 20.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 21.00 |
| 23 | Potassium dichromate #(T3) | 13.38 | 17.00 | 1.00 | 69.00 | 4.00 | 5.00 | 2.50 | 20.88 |
| 24 | Phosphoryl Trichloride | 16.25 | 14.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 20.75 |
| 25 | Silica #(T3) | 10.00 | 30.00 | 3.00 | 131.00 | 5.00 | 8.00 | 2.50 | 20.50 |
| 26 | Sodium bicarbonate #(T3) | 10.00 | 30.00 | 3.00 | 138.00 | 5.00 | 8.00 | 2.50 | 20.50 |
| 27 | Sodium cyanide #(T3) | 12.00 | 21.00 | 2.00 | 52.00 | 4.00 | 6.00 | 2.50 | 20.50 |
| 28 | Potassium ferrocyanide #(T3) | 14.00 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 2.50 | 20.50 |
| 29 | Kerosene #(T3) | 12.25 | 35.00 | 3.00 | 102.00 | 5.00 | 8.00 | 0.00 | 20.25 |
| 30 | Sodium Nitrate #(T3) | 10.75 | 23.00 | 2.00 | 124.00 | 5.00 | 7.00 | 2.50 | 20.25 |
| 31 | Hydrogen peroxide #(E3) | 11.63 | 38.00 | 3.00 | 172.00 | 5.00 | 8.00 | 0.50 | 20.13 |
| 32 | Gypsum #(T3 as K2CO3) | 12.00 | 36.00 | 3.00 | 127.00 | 5.00 | 8.00 | 0.00 | 20.00 |
| 33 | Methomyl | 12.00 | 9.00 | 0.00 | 46.00 | 3.00 | 3.00 | 5.00 | 20.00 |
| 34 | Nitric oxide #(I) | 16.00 | 11.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 20.00 |
| 35 | Chloroacetyl chloride E3 | 13.00 | 25.00 | 2.00 | 179.00 | 5.00 | 7.00 | 0.00 | 20.00 |
| 36 | Calcium Hydroxide #(T3) | 9.38 | 38.00 | 3.00 | 144.00 | 5.00 | 8.00 | 2.50 | 19.88 |
| 37 | Diethylene glycol | 12.38 | 30.00 | 3.00 | 94.00 | 4.00 | 7.00 | 0.50 | 19.88 |
| 38 | Silver nitrate #(T3) | 13.38 | 22.00 | 2.00 | 80.00 | 4.00 | 6.00 | 0.50 | 19.88 |
| 39 | Acetic acid #(T3) | 10.25 | 40.00 | 4.00 | 186.00 | 5.00 | 9.00 | 0.50 | 19.75 |
| 40 | Aniline | 12.25 | 16.00 | 1.00 | 64.00 | 4.00 | 5.00 | 2.50 | 19.75 |
| 41 | Toluene-2,4-diisocyanate | 15.63 | 12.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 19.63 |
| 42 | Magnesium Oxide #(T3) | 10.00 | 28.00 | 2.00 | 134.00 | 5.00 | 7.00 | 2.50 | 19.50 |
| 43 | Sodium dodecyl sulfate #(T3) | 12.00 | 27.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.50 | 19.50 |
| 44 | Zinc | 12.00 | 31.00 | 3.00 | 90.00 | 4.00 | 7.00 | 0.50 | 19.50 |
| 45 | Bromine | 15.50 | 12.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 19.50 |
| 46 | Carbendazim | 14.00 | 16.00 | 1.00 | 62.00 | 4.00 | 5.00 | 0.50 | 19.50 |
| 47 | Chlorine dioxide | 15.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 19.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 48 | Cyanogen Chloride | 460-19-5 | 10.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 49 | Iodine #(E3) | 7553-56-2 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 50 | Mercuric chloride #(T3 of Hg) | 7487-94-7 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 51 | Oleum-E3* | 8014-95-7 | 4.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 52 | Strychnine Sulfate #(T3) | 60-41-3 | 0.29 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 53 | Boron trifluoride * | 7637-07-2 | 39.66 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 54 | Sodium chlorate | 7775-09-9 | 17.22 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 55 | Phosphorus trichloride | 7719-12-2 | 5.60 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 56 | Benomyl | 17804-35-2 | 0.84 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 57 | Parathion * | 56-38-2 | 0.17 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 58 | Hydrogen bromide | 10035-10-6 | 120.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 59 | Phosphoric acid *#(T3) | 7664-38-2 | 124.70 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 60 | Phosphamidon #(T3) | 13171-21-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 61 | Dibutyl phthalate *#(T3) | 84-74-2 | 43.90 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 62 | Potassium Hydroxide #(T3) | 1310-58-3 | 65.36 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 63 | Acephate | 30560-19-1 | 5.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 64 | Barium nitrate *T3 | 10022-31-8 | 7.02 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 65 | Imidacloprid #(E3) | 105827-78-9 | 2.03 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 66 | Hydrogen cyanide | 74-90-8 | 15.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 67 | Sulfur tetrafluoride-T3* | 7783-60-0 | 2.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 68 | Arsine | 7784-42-1 | 0.50 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 69 | Periodic acid | 10450-60-9 | 0.54 | 5.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 70 | Sodium chloride #(T3) | 7647-14-5 | 209.19 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 71 | Cobalt dichloride #(T3) | 7646-79-9 | 51.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 72 | Lead Oxide (#T3) | 1309-60-0 | 10.22 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 73 | Nitrogen dioxide | 10102-44-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 74 | Potassium cyanide #(T3) | 151-50-8 | 22.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 75 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 7778-53-2 | 89.84 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 76 | Cadmium | 7440-43-9 | 1.96 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 77 | Dimethoate #(T3) | 60-51-5 | 3.19 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 78 | Endosulfan | 115-29-7 | 2.10 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 79 | Red mercuric oxide | 21908-53-2 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 80 | Phosdrin * #(T3) (Mevinphos) | 7786-34-7 | 0.44 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 81 | TEDP * #(T3) | 3689-24-5 | 0.76 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 82 | Dichlorvos | 62-73-7 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 83 | Iron oxide #(T3) | 1309-37-1 | 76.55 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 84 | Tetrafluoroboric acid #(T3) | 16872-11-0 | 11.14 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 85 | Phenyl etherbiphenyl mixture (vapor) #(I) | 8004-13-5 | 10.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 86 | Nitrosyl chloride-T3* | 2696-92-6 | 2.50 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 87 | TEPP * #(T3) | 107-49-3 | 0.42 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 88 | Ethanolamine #(T3) | 141-43-5 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 89 | Formic acid #(T3) | 64-18-6 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 90 | Boron trichloride T3 | 10294-34-5 | 2.50 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 91 | Dicofol #(T3) | 115-32-2 | 0.50 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 92 | Ammonium nitrate, no organic coating T3 | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 48 | Cyanogen Chloride | 18.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 19.50 |
| 49 | Iodine #(E3) | 14.00 | 19.00 | 1.00 | 80.00 | 4.00 | 5.00 | 0.50 | 19.50 |
| 50 | Mercuric chloride #(T3 of Hg) | 14.00 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 2.50 | 19.50 |
| 51 | Oleum-E3* | 15.50 | 9.00 | 0.00 | 81.00 | 4.00 | 4.00 | 0.00 | 19.50 |
| 52 | Strychnine Sulfate #(T3) | 16.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 2.50 | 19.50 |
| 53 | Boron trifluoride * | 15.38 | 11.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 19.38 |
| 54 | Sodium chlorate | 10.75 | 20.00 | 2.00 | 59.00 | 4.00 | 6.00 | 2.50 | 19.25 |
| 55 | Phosphorus trichloride | 14.25 | 11.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.00 | 19.25 |
| 56 | Benomyl | 14.75 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 19.25 |
| 57 | Parathion * | 15.63 | 3.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 19.13 |
| 58 | Hydrogen bromide | 14.00 | 16.00 | 1.00 | 73.00 | 4.00 | 5.00 | 0.00 | 19.00 |
| 59 | Phosphoric acid *#(T3) | 10.00 | 49.00 | 4.00 | 245.00 | 5.00 | 9.00 | 0.00 | 19.00 |
| 60 | Phosphamidon #(T3) | 17.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 19.00 |
| 61 | Dibutyl phthalate *#(T3) | 12.88 | 27.00 | 2.00 | 88.00 | 4.00 | 6.00 | 0.00 | 18.88 |
| 62 | Potassium Hydroxide #(T3) | 11.38 | 24.00 | 2.00 | 107.00 | 5.00 | 7.00 | 0.50 | 18.88 |
| 63 | Acephate | 13.38 | 9.00 | 0.00 | 49.00 | 3.00 | 3.00 | 2.50 | 18.88 |
| 64 | Barium nitrate *T3 | 13.38 | 15.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.50 | 18.88 |
| 65 | Imidacloprid #(E3) | 13.38 | 10.00 | 1.00 | 75.00 | 4.00 | 5.00 | 0.50 | 18.88 |
| 66 | Hydrogen cyanide | 9.75 | 13.00 | 1.00 | 25.00 | 3.00 | 4.00 | 5.00 | 18.75 |
| 67 | Sulfur tetrafluoride-T3* | 16.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 18.75 |
| 68 | Arsine | 16.25 | 8.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 18.75 |
| 69 | Periodic acid | 14.13 | 10.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.50 | 18.63 |
| 70 | Sodium chloride #(T3) | 10.00 | 38.00 | 3.00 | 175.00 | 5.00 | 8.00 | 0.50 | 18.50 |
| 71 | Cobalt dichloride #(T3) | 12.00 | 22.00 | 2.00 | 90.00 | 4.00 | 6.00 | 0.50 | 18.50 |
| 72 | Lead Oxide (#T3) | 12.00 | 10.00 | 1.00 | 20.00 | 3.00 | 4.00 | 2.50 | 18.50 |
| 73 | Nitrogen dioxide | 16.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 18.50 |
| 74 | Potassium cyanide #(T3) | 12.00 | 14.00 | 1.00 | 23.00 | 3.00 | 4.00 | 2.50 | 18.50 |
| 75 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 12.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 2.50 | 18.50 |
| 76 | Cadmium | 14.00 | 19.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 18.50 |
| 77 | Dimethoate #(T3) | 14.00 | 11.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.50 | 18.50 |
| 78 | Endosulfan | 14.00 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.50 | 18.50 |
| 79 | Red mercuric oxide | 14.00 | 11.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 18.50 |
| 80 | Phosdrin * #(T3) (Mevinphos) | 17.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 18.50 |
| 81 | TEDP * #(T3) | 17.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 18.50 |
| 82 | Dichlorvos | 12.88 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.50 | 18.38 |
| 83 | Iron oxide #(T3) | 11.38 | 27.00 | 2.00 | 141.00 | 5.00 | 7.00 | 0.00 | 18.38 |
| 84 | Tetrafluoroboric acid #(T3) | 12.88 | 17.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.50 | 18.38 |
| 85 | Phenyl etherbiphenyl mixture (vapor) #(I) | 17.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 18.38 |
| 86 | Nitrosyl chloride-T3* | 17.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 18.38 |
| 87 | TEPP * #(T3) | 16.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 18.38 |
| 88 | Ethanolamine #(T3) | 12.25 | 20.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 18.25 |
| 89 | Formic acid #(T3) | 12.25 | 26.00 | 2.00 | 84.00 | 4.00 | 6.00 | 0.00 | 18.25 |
| 90 | Boron trichloride T3 | 14.25 | 16.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 18.25 |
| 91 | Dicofol #(T3) | 14.75 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 18.25 |
| 92 | Ammonium nitrate, no organic coating T3 | 8.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 18.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 93 | Ammonium nitrate, with organic coating | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 94 | Chlorine trifluoride E3 | 7790-91-2 | 10.00 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 95 | Hydrogen sulfide | 7783-06-4 | 50.00 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 96 | Molybdophosphoric acid | 51429-74-4 | 37.05 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 97 | Demeton * #(T3) (Systox) | 8065-48-3 | 0.95 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 98 | Pentachlorophenol * #(T3) | 87-86-5 | 0.23 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 99 | Methyl bromide | 74-83-9 | 740.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 100 | Lead nitrate | 10099-74-8 | 11.07 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 101 | Acetylene tetrabromide #(T3) | 79-27-6 | 8.00 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 102 | Atrazine *T3 | 1912-24-9 | 1.50 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 103 | o-Anisidine * #(T3) | 90-04-0 | 9.93 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 104 | Azinphosmethyl * #(T3) | 86-50-0 | 0.77 | 5.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 105 | Tungsten hexafluoride-T3* | 7783-82-6 | 32.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 106 | Hexafluoroacetone E3 | 684-16-2 | 50.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 107 | Silicon tetrafluoride-T3* | 7783-61-1 | 100.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 108 | Phosphine | 7803-51-2 | 3.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 109 | Dimethyl sulfate | 77-78-1 | 1.60 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 110 | Isobutane-T3* | 75-28-5 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 111 | Hydrogen T3 | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 112 | Copper oxychloride #(E3) | 1332-40-7 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 113 | Fluorine | 7782-41-4 | 13.00 | 3.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |
| 114 | Malathion * #(T3) | 121-75-5 | 18.50 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 115 | Sodium fluoride #(T3) | 7681-49-4 | 43.76 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 116 | Arsenic *T3 | 7440-38-2 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 117 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 57837-19-1 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 118 | Sodium fluoroacetate #(T3) | 62-74-8 | 0.61 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 119 | Sulfur pentafluoride #(T3) | 5714-22-7 | 1.00 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 120 | Trithion | 786-19-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 121 | Phosphorus | 7723-14-0 | 3.16 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 122 | Chlorosulfonic acid E3 | 7790-94-5 | 6.29 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 123 | Boron tribromide T3 | 10294-33-4 | 5.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 124 | Thionyl chloride-E3* | 7719-09-715 | 10.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 125 | Perchloromethyl mercaptan | 594-42-3 | 0.90 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 126 | Nitrobenzene #(T3) | 98-95-3 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 127 | p-Phenylene diamine * #(T3) | 106-50-3 | 5.70 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 1.00 |
| 128 | Cypermethrin #(I as in pyrethrum) | 52315-07-8 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 129 | Sulfuryl fluoride | 2699-79-8 | 64.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 130 | Thiram * #(T3) | 137-26-8 | 10.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 131 | 2 Aminopyridine #(I) | 504-29-0 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 132 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 528-29-0; 99-65-0; 100-25-4 | 7.27 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 133 | p-Anisidine * #(T3) | 104-94-9 | 9.93 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 134 | Warfarin * #(T3) | 81-81-2 | 1.60 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 135 | 2-chlorobenzoyl Chloride | 609-65-4 | 1.00 | 5.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 136 | Difethialone (T3 based on warfarin) | 104653-34-1 | 0.67 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 137 | Dinitrocresol * #(T3) | 534-52-1 | 0.62 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 93 | Ammonium nitrate, with organic coating | 8.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 18.13 |
| 94 | Chlorine trifluoride E3 | 16.13 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 18.13 |
| 95 | Hydrogen sulfide | 13.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.50 | 18.00 |
| 96 | Molybdophosphoric acid | 13.50 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 18.00 |
| 97 | Demeton * #(T3) (Systox) | 17.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 18.00 |
| 98 | Pentachlorophenol * #(T3) | 16.00 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 18.00 |
| 99 | Methyl bromide | 13.38 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 17.88 |
| 100 | Lead nitrate | 11.38 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 2.50 | 17.88 |
| 101 | Acetylene tetrabromide #(T3) | 14.88 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 17.88 |
| 102 | Atrazine *T3 | 13.38 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 17.88 |
| 103 | o-Anisidine * #(T3) | 14.88 | 5.00 | 0.00 | 24.00 | 3.00 | 3.00 | 0.00 | 17.88 |
| 104 | Azinphosmethyl * #(T3) | 15.38 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 17.88 |
| 105 | Tungsten hexafluoride-T3* | 14.75 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 17.75 |
| 106 | Hexafluoroacetone E3 | 14.75 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 17.75 |
| 107 | Silicon tetrafluoride-T3* | 14.75 | 9.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 17.75 |
| 108 | Phosphine | 14.25 | 9.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.50 | 17.75 |
| 109 | Dimethyl sulfate | 13.63 | 12.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 17.63 |
| 110 | Isobutane-T3* | 7.50 | 68.00 | 5.00 | 409.00 | 5.00 | 10.00 | 0.00 | 17.50 |
| 111 | Hydrogen T3 | 7.50 | 70.00 | 5.00 | 340.00 | 5.00 | 10.00 | 0.00 | 17.50 |
| 112 | Copper oxychloride #(E3) | 12.00 | 21.00 | 2.00 | 41.00 | 3.00 | 5.00 | 0.50 | 17.50 |
| 113 | Fluorine | 13.50 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.00 | 17.50 |
| 114 | Malathion * #(T3) | 13.50 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 17.50 |
| 115 | Sodium fluoride #(T3) | 12.00 | 16.00 | 1.00 | 85.00 | 4.00 | 5.00 | 0.50 | 17.50 |
| 116 | Arsenic *T3 | 14.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 17.50 |
| 117 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 14.00 | 8.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 17.50 |
| 118 | Sodium fluoroacetate #(T3) | 16.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 17.50 |
| 119 | Sulfur pentafluoride #(T3) | 17.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.50 |
| 120 | Trithion | 17.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.50 |
| 121 | Phosphorus | 12.75 | 11.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 17.25 |
| 122 | Chlorosulfonic acid E3 | 14.25 | 6.00 | 0.00 | 38.00 | 3.00 | 3.00 | 0.00 | 17.25 |
| 123 | Boron tribromide T3 | 14.25 | 3.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 17.25 |
| 124 | Thionyl chloride-E3* | 14.25 | | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 17.25 |
| 125 | Perchloromethyl mercaptan | 16.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 17.25 |
| 126 | Nitrobenzene #(T3) | 9.63 | 12.00 | 1.00 | 55.00 | 4.00 | 5.00 | 2.50 | 17.13 |
| 127 | p-Phenylene diamine * #(T3) | 12.13 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 17.13 |
| 128 | Cypermethrin #(I as in pyrethrum) | 11.50 | 15.00 | 1.00 | 89.00 | 4.00 | 5.00 | 0.50 | 17.00 |
| 129 | Sulfuryl fluoride | 16.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 17.00 |
| 130 | Thiram * #(T3) | 12.00 | 17.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.00 | 17.00 |
| 131 | 2 Aminopyridine #(I) | 14.00 | 6.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 17.00 |
| 132 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 14.00 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 17.00 |
| 133 | p-Anisidine * #(T3) | 14.00 | 5.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 17.00 |
| 134 | Warfarin * #(T3) | 14.00 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 17.00 |
| 135 | 2-chlorobenzoyl Chloride | 13.50 | 5.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 17.00 |
| 136 | Difethialone (T3 based on warfarin) | 16.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 17.00 |
| 137 | Dinitrocresol * #(T3) | 16.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 17.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 138 | Endrin * #(T3) | 72-20-8 | 0.13 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 139 | EPN * #(T3) | 2104-64-5 | 0.38 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 140 | Nitrogen mustard hydrochloride-T3* | 55-86-7 | 0.51 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 141 | Iron, pentacarbonyl- T3 | 13463-40-6 | 0.18 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 142 | Propylene-T3* | 115-07-1 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 143 | Potassium nitrate #(T3) | 7757-79-1 | 120.91 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 144 | Ammonium persulfate *T3 | 7727-54-0 | 10.71 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 145 | Castor oil #(T3) | 8001-79-4 | 13.12 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 146 | Cobalt (II) nitrate | 10141-05-6 | 12.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 147 | Dimethylphthalate * #(T3) | 131-11-3 | 62.96 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 148 | Paraquat* (dichloride) | 1910-42-5 | 19.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 149 | Potassium permanganate #(T3) | 7722-64-7 | 19.34 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 150 | Tributyl phosphate #(T3) | 126-73-8 | 30.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 151 | Mercuric nitrate | 10045-94-0 | 1.07 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 152 | Methyl parathion #(T3) | 298-00-0 | 1.39 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 153 | Sodium sulfide #(T3) | 1313-82-2 | 23.51 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 154 | Germanium tetrafluoride T3 | 7783-58-6 | 82.25 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 155 | Methylene bisphenyl isocyanate * #(E3) | 101-68-8 | 2.40 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 156 | Ethylene oxide | 75-21-8 | 200.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 157 | Xylenes #(T3) | 95-47-6 | 900.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 158 | Furfural #(E3) | 98-01-1 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 159 | Methyl chloroformate-T3* | 79-22-1 | 4.00 | 4.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 160 | Propane | 74-98-6 | 33000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 161 | Ethylene dibromide | 106-93-4 | 46.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 162 | Metribuzin #(T3 as diazo compound) | 21087-64-9 | 10.98 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 163 | Sodium borate | 12179-04-3 | 32.09 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 164 | Hydrogen selenide | 7783-07-5 | 2.20 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 5.00 |
| 165 | Diphenyl Ether #(T3) | 101-84-8 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 166 | Fenvalerate | 51630-58-1 | 29.11 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 167 | Phosphotungstic acid #(T3 of tungstic acid) | 12067-99-1 | 13.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 168 | Polyphosphoric acid | 68333-79-9 | 14.47 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 169 | Carbonyl fluoride T3 | 353-50-4 | 20.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 170 | 2-chloroacetophenone *IDLH | 532-27-4 | 2.38 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 171 | Di-syston #(T3) | 298-04-4 | 6.68 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 172 | Oxydemeton-methyl #(I) | 301-12-2 | 3.97 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 173 | Cyclohexanone #(T3) | 108-94-1 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 174 | Paracetamol #(E3-phenol) | 103-90-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 175 | Phenol #(E3) | 108-95-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 176 | Ethylenediamine | 107-15-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 177 | N,N-Dimethylaniline #(T3) | 121-69-7 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 178 | o-Toluidine #(T3) | 95-53-4 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 179 | Titanium tetrachloride-E3* | 7550-45-0 | 12.89 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 180 | Dichlorosilane T3 | 4109-96-0 | 75.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 181 | Sodium azide (#T3) | 26628-22-8 | 4.69 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 182 | Methylphenyldichlorosilane-T3' | 149-74-6 | 2.56 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 183 | Ethyl alcohol #(T3) | 64-17-5 | 3300.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 184 | Ethyl acetate #(T3) | 141-78-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 138 | Endrin * #(T3) | 16.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 17.00 |
| 139 | EPN * #(T3) | 16.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 17.00 |
| 140 | Nitrogen mustard hydrochloride-T3* | 16.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 17.00 |
| 141 | Iron, pentacarbonyl- T3 | 15.00 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 17.00 |
| 142 | Propylene-T3* | 6.88 | 52.00 | 5.00 | 211.00 | 5.00 | 10.00 | 0.00 | 16.88 |
| 143 | Potassium nitrate #(T3) | 9.38 | 24.00 | 2.00 | 117.00 | 5.00 | 7.00 | 0.50 | 16.88 |
| 144 | Ammonium persulfate *T3 | 11.38 | 12.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 16.88 |
| 145 | Castor oil #(T3) | 12.88 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 16.88 |
| 146 | Cobalt (II) nitrate | 11.38 | 18.00 | 1.00 | 70.00 | 4.00 | 5.00 | 0.50 | 16.88 |
| 147 | Dimethylphthalate * #(T3) | 12.88 | 16.00 | 1.00 | 36.00 | 3.00 | 4.00 | 0.00 | 16.88 |
| 148 | Paraquat* (dichloride) | 11.38 | 8.00 | 0.00 | 29.00 | 3.00 | 3.00 | 2.50 | 16.88 |
| 149 | Potassium permanganate #(T3) | 11.38 | 16.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 16.88 |
| 150 | Tributyl phosphate #(T3) | 12.88 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 16.88 |
| 151 | Mercuric nitrate | 13.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 16.88 |
| 152 | Methyl parathion #(T3) | 13.38 | 7.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 16.88 |
| 153 | Sodium sulfide #(T3) | 10.75 | 21.00 | 2.00 | 86.00 | 4.00 | 6.00 | 0.00 | 16.75 |
| 154 | Germanium tetrafluoride T3 | 14.75 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 16.75 |
| 155 | Methylene bisphenyl isocyanate * #(E3) | 12.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 16.75 |
| 156 | Ethylene oxide | 9.63 | 32.00 | 3.00 | 84.00 | 4.00 | 7.00 | 0.00 | 16.63 |
| 157 | Xylenes #(T3) | 9.63 | 32.00 | 3.00 | 76.00 | 4.00 | 7.00 | 0.00 | 16.63 |
| 158 | Furfural #(E3) | 11.63 | 19.00 | 1.00 | 66.00 | 4.00 | 5.00 | 0.00 | 16.63 |
| 159 | Methyl chloroformate-T3* | 13.63 | 2.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 16.63 |
| 160 | Propane | 7.50 | 42.00 | 4.00 | 142.00 | 5.00 | 9.00 | 0.00 | 16.50 |
| 161 | Ethylene dibromide | 13.50 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 16.50 |
| 162 | Metribuzin #(T3 as diazo compound) | 12.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 16.50 |
| 163 | Sodium borate | 12.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 2.50 | 16.50 |
| 164 | Hydrogen selenide | 15.50 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 16.50 |
| 165 | Diphenyl Ether #(T3) | 12.88 | 5.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 16.38 |
| 166 | Fenvalerate | 12.88 | 6.00 | 0.00 | 48.00 | 3.00 | 3.00 | 0.50 | 16.38 |
| 167 | Phosphotungstic acid #(T3 of tungstic acid) | 12.88 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 16.38 |
| 168 | Polyphosphoric acid | 12.88 | 9.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 16.38 |
| 169 | Carbonyl fluoride T3 | 15.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 16.38 |
| 170 | 2-chloroacetophenone *IDLH | 13.38 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 16.38 |
| 171 | Di-syston #(T3) | 14.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 16.38 |
| 172 | Oxydemeton-methyl #(I) | 14.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 16.38 |
| 173 | Cyclohexanone #(T3) | 10.25 | 25.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 16.25 |
| 174 | Paracetamol #(E3-phenol) | 8.75 | 23.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.50 | 16.25 |
| 175 | Phenol #(E3) | 8.75 | 26.00 | 2.00 | 129.00 | 5.00 | 7.00 | 0.50 | 16.25 |
| 176 | Ethylenediamine | 12.25 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 16.25 |
| 177 | N,N-Dimethylaniline #(T3) | 12.25 | 11.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 16.25 |
| 178 | o-Toluidine #(T3) | 12.25 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 16.25 |
| 179 | Titanium tetrachloride-E3* | 12.25 | 15.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 16.25 |
| 180 | Dichlorosilane T3 | 12.25 | 12.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 16.25 |
| 181 | Sodium azide (#T3) | 12.75 | 8.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.50 | 16.25 |
| 182 | Methylphenyldichlorosilane-T3' | 14.25 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 16.25 |
| 183 | Ethyl alcohol #(T3) | 5.63 | 51.00 | 5.00 | 321.00 | 5.00 | 10.00 | 0.50 | 16.13 |
| 184 | Ethyl acetate #(T3) | 7.63 | 30.00 | 3.00 | 139.00 | 5.00 | 8.00 | 0.50 | 16.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 185 | Isobutyl alcohol #(T3) | 78-83-1 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 186 | Isopropyl alcohol #(T3) | 67-63-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 187 | Chloropicrin | 76-06-2 | 1.40 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 188 | Fluorotrichloromethane #(T3) | 75-69-4 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 189 | Carbon tetrachloride | 56-23-5 | 520.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 190 | Deltamethrin #(I as in pyrethrum) | 52918-63-5 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 191 | 2,4-D * #(T3) | 94-75-7 | 11.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 192 | Carbaryl * #(T3) | 63-25-2 | 12.15 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 193 | Collodion #(T3) | 9004-70-0 | 12.23 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 194 | Dinitrogen tetroxide T3 | 10544-72-6 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 195 | Thallium sulfate #(T3 of Tl) | 7446-18-6 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 196 | Hexachloronaphthalene * #(T3) | 1335-87-1 | 0.15 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 197 | Chloromethyl ether E3 | 542-88-1 | 0.50 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 198 | MDEA-R* (N-Methyldiethanolamine | 105-59-9 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 199 | Magnesium (powder)-T3* | 7439-95-4 | 251.49 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 200 | Bismuth *T3 of BiOCl | 7440-69-9 | 47.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 201 | Methidathion #(T3) | 950-37-8 | 32.35 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 202 | alpha-Chloroacetophenone * #(I) | 532-27-4 | 2.37 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 203 | Phenamiphos #(T3) | 22224-92-6 | 3.22 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 204 | Antimony Pentafluoride T3 | 7783-70-2 | 8.46 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 205 | Dimethylformamide | 68-12-2 | 530.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 206 | Naphthalene #(T3) | 91-20-3 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 207 | Sulfur trioxide | 11/9/7446 | 160.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 208 | Hydrogen iodide T3 | 10034-85-2 | 120.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 209 | 2-Diethylaminoethanol #(I) | 100-37-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 210 | Bromoxynil #(T3-as naptha solution only) | 1689-84-5 | 80.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 211 | Aluminum chloride, anydrous *T3 | 7446-70-0 | 91.68 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 212 | Phosphorus pentachloride * #(T3) | 10026-13-8 | 8.22 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 213 | Sulfur trioxide-E3* | 7446-11-9 | 9.16 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 214 | Acetylene *T3 | 74-86-2 | 6000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 215 | Ethylene dichloride #(E3) | 107-06-2 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 216 | Benzyl chloride #(E3) | 100-44-7 | 25.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 217 | Furfuryl alcohol #(T3) | 98-00-0 | 75.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 218 | Diborane | 19287-45-7 | 3.70 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 219 | Nitroglycerin #(T3) | 55-63-0 | 8.07 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 220 | Chlorodiphenyl (42% chlorine)* #(T3) | 53469-21-9 | 0.47 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 221 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 78-53-5 | 0.30 | 5.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 222 | Bromoform #(T3) | 75-25-2 | 850.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 223 | Dimethylamine | 124-40-3 | 250.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 224 | Ethylamine | 75-04-7 | 270.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 225 | Methylamine | 74-89-5 | 350.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 226 | Potassium fluoride #(T3) | 7789-23-3 | 210.38 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 227 | Aluminum (powder) *T3 | 7429-90-5 | 226.54 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 228 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 185 | Isobutyl alcohol #(T3) | 7.63 | 27.00 | 2.00 | 80.00 | 4.00 | 6.00 | 2.50 | 16.13 |
| 186 | Isopropyl alcohol #(T3) | 7.63 | 24.00 | 2.00 | 90.00 | 4.00 | 6.00 | 2.50 | 16.13 |
| 187 | Chloropicrin | 13.63 | 3.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 16.13 |
| 188 | Fluorotrichloromethane #(T3) | 12.00 | 12.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.00 | 16.00 |
| 189 | Carbon tetrachloride | 11.50 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 16.00 |
| 190 | Deltamethrin #(I as in pyrethrum) | 11.50 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 16.00 |
| 191 | 2,4-D * #(T3) | 12.00 | 15.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 16.00 |
| 192 | Carbaryl * #(T3) | 12.00 | 10.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 16.00 |
| 193 | Collodion #(T3) | 11.00 | 22.00 | 2.00 | 40.00 | 3.00 | 5.00 | 0.00 | 16.00 |
| 194 | Dinitrogen tetroxide T3 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.00 |
| 195 | Thallium sulfate #(T3 of Tl) | 14.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 16.00 |
| 196 | Hexachloronaphthalene * #(T3) | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.00 |
| 197 | Chloromethyl ether E3 | 15.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 16.00 |
| 198 | MDEA-R* (N-Methyldiethanolamine | 10.88 | 24.00 | 2.00 | 44.00 | 3.00 | 5.00 | 0.00 | 15.88 |
| 199 | Magnesium (powder)-T3* | 6.88 | 42.00 | 4.00 | 423.00 | 5.00 | 9.00 | 0.00 | 15.88 |
| 200 | Bismuth *T3 of BiOCl | 11.38 | 15.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 15.88 |
| 201 | Methidathion #(T3) | 11.38 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 2.50 | 15.88 |
| 202 | alpha-Chloroacetophenone * #(I) | 13.38 | 3.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 15.88 |
| 203 | Phenamiphos #(T3) | 13.38 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 15.88 |
| 204 | Antimony Pentafluoride T3 | 14.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 15.88 |
| 205 | Dimethylformamide | 10.25 | 19.00 | 1.00 | 64.00 | 4.00 | 5.00 | 0.50 | 15.75 |
| 206 | Naphthalene #(T3) | 8.75 | 25.00 | 2.00 | 103.00 | 5.00 | 7.00 | 0.00 | 15.75 |
| 207 | Sulfur trioxide | 12.75 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 15.75 |
| 208 | Hydrogen iodide T3 | 12.75 | 2.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 15.75 |
| 209 | 2-Diethylaminoethanol #(I) | 12.25 | 0.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 15.75 |
| 210 | Bromoxynil #(T3-as naptha solution only) | 12.25 | 5.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 15.75 |
| 211 | Aluminum chloride, anydrous *T3 | 10.75 | 10.00 | 1.00 | 99.00 | 4.00 | 5.00 | 0.00 | 15.75 |
| 212 | Phosphorus pentachloride * #(T3) | 12.75 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 15.75 |
| 213 | Sulfur trioxide-E3* | 12.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 15.75 |
| 214 | Acetylene *T3 | 5.63 | 93.00 | 5.00 | 253.00 | 5.00 | 10.00 | 0.00 | 15.63 |
| 215 | Ethylene dichloride #(E3) | 9.63 | 28.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 15.63 |
| 216 | Benzyl chloride #(E3) | 11.63 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 15.63 |
| 217 | Furfuryl alcohol #(T3) | 11.63 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 15.63 |
| 218 | Diborane | 13.63 | 7.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 15.63 |
| 219 | Nitroglycerin #(T3) | 11.13 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 15.63 |
| 220 | Chlorodiphenyl (42% chlorine)* #(T3) | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 |
| 221 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 15.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.63 |
| 222 | Bromoform #(T3) | 11.50 | 10.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 223 | Dimethylamine | 11.50 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 224 | Ethylamine | 11.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 225 | Methylamine | 11.50 | 14.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 15.50 |
| 226 | Potassium fluoride #(T3) | 10.00 | 14.00 | 1.00 | 82.00 | 4.00 | 5.00 | 0.50 | 15.50 |
| 227 | Aluminum (powder) *T3 | 7.50 | 39.00 | 3.00 | 520.00 | 5.00 | 8.00 | 0.00 | 15.50 |
| 228 | 1,1,2,2-Tetrachloroethane #(T3) | 13.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 15.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 229 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 69327-76-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 230 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 39515-41-8 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 231 | Methamidophos | 10265-92-6 | 10.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 232 | Antimony oxide *T3 | 1309-64-4 | 6.43 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 233 | Pirimicarb #(T3 as carbamate ester) | 5947-49-9 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 234 | Thallium #(T3) | 7440-28-0 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 235 | Methyl iodide #(E3) | 74-88-4 | 125.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 236 | Oxalic acid * #(T3) | 144-62-7 | 135.77 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 237 | 2,6-di-tert-butyl-p-cresol *T3 | 128-37-0 | 44.45 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 238 | Acrylonitrile | 107-13-1 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 239 | Hydroquinone * #(T3) | 123-31-9 | 11.10 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 240 | Acrylyl Chloride *T3 | 814-68-6 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 241 | Chloromethyl methyl ether E3 | 107-30-2 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 242 | Methyl isocyanate | 624-83-9 | 0.20 | 5.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 243 | 4-chlorobutyronitrile (as CN) | 628-20-6 | 25.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 244 | Barium *T3 | 7440-39-3 | 22.31 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 245 | Dichloroethyl ether #(T3) | 111-44-4 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 246 | Ethylene chlorohydrin | 107-07-3 | 12.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 247 | Monomethyl aniline #(T3) | 100-61-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 248 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 88-72-2; 99-08-1; 99-99-0 | 60.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 249 | Phenylhydrazine #(T3) | 100-63-0 | 15.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 250 | Sulfuryl chloride-T3* | 7791-25-5 | 15.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 251 | Chloroacetaldehyde | 107-20-0 | 9.90 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 252 | Oxygen difluoride | 7783-41-7 | 2.50 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 253 | Benzene | 71-43-2 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 254 | Methyl alcohol | 67-56-1 | 7200.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 255 | Toluene | 108-88-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 256 | Chlorine pentafluoride T3 | 13637-63-3 | 60.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 257 | o-Chlorobenzylidene malononitrile * #(T3) | 2698-41-1 | 0.26 | 5.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 1.00 |
| 258 | Carbon monoxide/Syngas | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 259 | Nitrogen trioxide-T3* | 10544-73-7 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 260 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 118-52-5 | 62.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 261 | p-Nitrochlorobenzene * #(T3) | 100-00-5 | 15.52 | 3.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 262 | Acetone cyanohydrin, stabilized *T-3 | 75-86-5 | 15.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 263 | Acetyl Bromide *T3 | 506-96-7 | 20.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 264 | Heptachlor * #(T3) | 76-44-8 | 2.29 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 265 | Phenyltrichlorosilane-T3* | 98-13-5 | 4.62 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 266 | 1,1,2-Trichloroethane #(T3) | 79-00-5 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 267 | Bifenthrin Tox est. on Pyr. | 82657-04-3 | 20.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 268 | Biphenyl * #(T3) | 92-52-4 | 15.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 229 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 12.00 | 5.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.50 | 15.50 |
| 230 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 12.00 | 3.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.50 | 15.50 |
| 231 | Methamidophos | 12.00 | 9.00 | 0.00 | 45.00 | 3.00 | 3.00 | 0.50 | 15.50 |
| 232 | Antimony oxide *T3 | 14.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 15.50 |
| 233 | Pirimicarb #(T3 as carbamate ester) | 14.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 15.50 |
| 234 | Thallium #(T3) | 14.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.50 | 15.50 |
| 235 | Methyl iodide #(E3) | 10.88 | 10.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.50 | 15.38 |
| 236 | Oxalic acid * #(T3) | 9.38 | 16.00 | 1.00 | 106.00 | 5.00 | 6.00 | 0.00 | 15.38 |
| 237 | 2,6-di-tert-butyl-p-cresol *T3 | 11.38 | 13.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 15.38 |
| 238 | Acrylonitrile | 10.38 | 16.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 15.38 |
| 239 | Hydroquinone * #(T3) | 11.38 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 15.38 |
| 240 | Acrylyl Chloride *T3 | 12.38 | 5.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 15.38 |
| 241 | Chloromethyl methyl ether E3 | 12.38 | 8.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 15.38 |
| 242 | Methyl isocyanate | 14.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 15.38 |
| 243 | 4-chlorobutyronitrile (as CN) | 12.25 | 4.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 244 | Barium *T3 | 10.75 | 11.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.50 | 15.25 |
| 245 | Dichloroethyl ether #(T3) | 12.25 | 4.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 246 | Ethylene chlorohydrin | 12.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 247 | Monomethyl aniline #(T3) | 12.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 248 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 12.25 | 7.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 249 | Phenylhydrazine #(T3) | 12.25 | 8.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 250 | Sulfuryl chloride-T3* | 12.25 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 15.25 |
| 251 | Chloroacetaldehyde | 14.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 15.25 |
| 252 | Oxygen difluoride | 14.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 15.25 |
| 253 | Benzene | 5.63 | 42.00 | 4.00 | 291.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 254 | Methyl alcohol | 5.63 | 47.00 | 4.00 | 268.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 255 | Toluene | 5.63 | 40.00 | 4.00 | 237.00 | 5.00 | 9.00 | 0.50 | 15.13 |
| 256 | Chlorine pentafluoride T3 | 14.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 15.13 |
| 257 | o-Chlorobenzylidene malononitrile * #(T3) | 14.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 15.13 |
| 258 | Carbon monoxide/Syngas | 7.50 | 31.00 | 3.00 | 55.00 | 4.00 | 7.00 | 0.50 | 15.00 |
| 259 | Nitrogen trioxide-T3* | 14.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 15.00 |
| 260 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 12.00 | 3.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 15.00 |
| 261 | p-Nitrochlorobenzene * #(T3) | 9.50 | 6.00 | 0.00 | 25.00 | 3.00 | 3.00 | 2.50 | 15.00 |
| 262 | Acetone cyanohydrin, stabilized *T-3 | 11.00 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.00 | 15.00 |
| 263 | Acetyl Bromide *T3 | 11.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.00 | 15.00 |
| 264 | Heptachlor * #(T3) | 14.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 15.00 |
| 265 | Phenyltrichlorosilane-T3* | 13.00 | 1.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 15.00 |
| 266 | 1,1,2-Trichloroethane #(T3) | 12.88 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 14.88 |
| 267 | Bifenthrin Tox est. on Pyr. | 11.38 | 5.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 14.88 |
| 268 | Biphenyl * #(T3) | 11.38 | 7.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 14.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 269 | guanidine hydrochloride | 50-01-1 | 51.28 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 270 | Methyl mercaptan | 74-93-1 | 68.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 271 | Thiophanate methyl #(T3 of carbamate fungicides) | 23564-05-8 | 11.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 272 | Triethanolamine-T3* | 102-71-6 | 81.94 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 273 | Tetramethylethylenediamine #(T#) | 110-18-9 | 125.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 274 | 2-thiophenecarbonitrile (as CN) | 1003-31-2 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 275 | Camphor (synthetic) * #(T3) | 76-22-2 | 32.11 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 276 | Quinone #(T3) | 106-51-4 | 22.60 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 277 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 70788-37-3 | 70.99 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 278 | Potassium chlorate | 3811-04-9 | 69.83 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 279 | Acrolein | 107-02-8 | 1.40 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 280 | Sodium borohydride #(T3) | 16940-66-2 | 4.85 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 281 | Nickel Carbonyl-T3* | 13463-39-3 | 0.16 | 5.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 282 | n-Butyl alcohol #(T3) | 71-36-3 | 1400.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 283 | Acetic anhydride #(T3) | 108-24-7 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 284 | Chlorobenzene | 108-90-7 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 285 | Hexone #(T3) | 108-10-1 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 286 | Isoamyl alcohol (primary and secondary) #(T3) | 123-51-3 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 287 | N-Ethylmorpholine #(I) | 100-74-3 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 288 | Sulfur monochloride | 10025-67-9 | 15.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 289 | Cyclohexylamine T3 | 108-91-8 | 30.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 290 | Propyl chloroformate-T3* | 109-61-5 | 60.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 291 | Diazomethane #(T3) | 334-88-3 | 2.00 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 5.00 |
| 292 | Ethyl phosphonothioic dichloride R | 993-43-1 | 7.50 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 293 | Fluorosulfonic acid T3 | 7789-21-1 | 7.33 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 294 | Butane T3 | 106-97-8 | 19000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 295 | Boron *T3 of B2O3 | 7440-42-8 | 175.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 296 | Iron phosphate #(T3 as iron) | 10045-86-0 | 214.47 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 297 | Trimethylamine-E3* | 75-50-3 | 500.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 298 | Aldicarb *T# | 116-06-3 | 12.87 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 299 | Crag (r) herbicide #(T3) | 136-78-7 | 39.55 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 300 | Cyanide | 57-12-5 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 301 | Aldrin * #(T3) | 309-00-2 | 1.68 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 302 | Dieldrin * #(T3) | 60-57-1 | 3.21 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 303 | Mercuric Salicylate #(T3 of Hg) | 5970-32-1 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 304 | Tetraethyl lead #(T3) | 78-00-2 | 4.51 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 305 | Epichlorohydrin #(I) | 106-89-8 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 306 | Halothane (T:V) | 151-67-7 | 50.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 307 | Triphenyl phosphate* | 115-86-6 | 37.47 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 308 | Diketene | 674-82-8 | 2.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 309 | Methyl hydrazine | 60-34-4 | 2.70 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 310 | 1,3-Butadiene | 106-99-0 | 22000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 311 | Cyclohexanol #(T3) | 108-93-0 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 312 | Dimethyl acetamide #(T3) | 127-19-5 | 300.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 313 | Methyl (n-amyl) ketone #(T3) | 110-43-0 | 800.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 269 | guanidine hydrochloride | 11.38 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 14.88 |
| 270 | Methyl mercaptan | 12.88 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 14.88 |
| 271 | Thiophanate methyl #(T3 of carbamate fungicides) | 11.38 | 8.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.50 | 14.88 |
| 272 | Triethanolamine-T3* | 12.88 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 14.88 |
| 273 | Tetramethylethylenediamine #(T#) | 10.25 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.50 | 14.75 |
| 274 | 2-thiophenecarbonitrile (as CN) | 12.25 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 14.75 |
| 275 | Camphor (synthetic) * #(T3) | 10.75 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 14.75 |
| 276 | Quinone #(T3) | 10.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 14.75 |
| 277 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 12.25 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 14.75 |
| 278 | Potassium chlorate | 10.75 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 14.75 |
| 279 | Acrolein | 11.75 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 14.75 |
| 280 | Sodium borohydride #(T3) | 10.25 | 13.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 14.75 |
| 281 | Nickel Carbonyl-T3* | 13.75 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 14.75 |
| 282 | n-Butyl alcohol #(T3) | 7.63 | 26.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.00 | 14.63 |
| 283 | Acetic anhydride #(T3) | 9.63 | 19.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.00 | 14.63 |
| 284 | Chlorobenzene | 9.63 | 13.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 14.63 |
| 285 | Hexone #(T3) | 9.63 | 17.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 14.63 |
| 286 | Isoamyl alcohol (primary and secondary) #(T3) | 9.63 | 18.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.00 | 14.63 |
| 287 | N-Ethylmorpholine #(I) | 11.63 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 14.63 |
| 288 | Sulfur monochloride | 11.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 14.63 |
| 289 | Cyclohexylamine T3 | 11.63 | 8.00 | 0.00 | 32.00 | 3.00 | 3.00 | 0.00 | 14.63 |
| 290 | Propyl chloroformate-T3* | 11.63 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 14.63 |
| 291 | Diazomethane #(T3) | 13.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 14.63 |
| 292 | Ethyl phosphonothioic dichloride R | 13.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 14.63 |
| 293 | Fluorosulfonic acid T3 | 13.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 14.63 |
| 294 | Butane T3 | 7.50 | 36.00 | 3.00 | 97.00 | 4.00 | 7.00 | 0.00 | 14.50 |
| 295 | Boron *T3 of B2O3 | 10.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 14.50 |
| 296 | Iron phosphate #(T3 as iron) | 10.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 2.50 | 14.50 |
| 297 | Trimethylamine-E3* | 11.50 | 8.00 | 0.00 | 41.00 | 3.00 | 3.00 | 0.00 | 14.50 |
| 298 | Aldicarb *T# | 12.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 14.50 |
| 299 | Crag (r) herbicide #(T3) | 12.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 14.50 |
| 300 | Cyanide | 13.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 14.50 |
| 301 | Aldrin * #(T3) | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 14.50 |
| 302 | Dieldrin * #(T3) | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 14.50 |
| 303 | Mercuric Salicylate #(T3 of Hg) | 14.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 14.50 |
| 304 | Tetraethyl lead #(T3) | 13.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 14.50 |
| 305 | Epichlorohydrin #(I) | 10.38 | 15.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.00 | 14.38 |
| 306 | Halothane (T:V) | 12.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 14.38 |
| 307 | Triphenyl phosphate* | 11.38 | 5.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 14.38 |
| 308 | Diketene | 12.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.38 |
| 309 | Methyl hydrazine | 12.38 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 14.38 |
| 310 | 1,3-Butadiene | 6.25 | 31.00 | 3.00 | 111.00 | 5.00 | 8.00 | 0.00 | 14.25 |
| 311 | Cyclohexanol #(T3) | 10.25 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 14.25 |
| 312 | Dimethyl acetamide #(T3) | 10.25 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 14.25 |
| 313 | Methyl (n-amyl) ketone #(T3) | 10.25 | 11.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 14.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 314 | Allyl glycidyl ether #(I) | 106-92-3 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 315 | Dibutyl phosphate #(T3) | 107-66-4 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 316 | p-tert-Butyltoluene #(I) | 98-51-1 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 317 | Iodine pentafluoride R | 7783-66-6 | 98.07 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 318 | Chlordane * #(T3) | 57-74-9 | 5.97 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 319 | Mercury oxycyanide as Hg | 1335-31-5 | 1.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 320 | Stibine | 7803-52-3 | 9.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 321 | tert-Butyl chromate #(I) | 1189-85-1 | 1.59 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 322 | Cyclohexane #(T3) | 110-82-7 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 323 | Acetonitrile | 75-05-8 | 670.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 324 | n-Amyl acetate #(T3) | 628-63-7 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 325 | n-Propyl alcohol #(T3) | 71-23-8 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 326 | Phosphorus pentasulfide * #(T3) | 1314-80-3 | 27.50 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 327 | Chloroform | 67-66-3 | 3200.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 328 | Dichlorodifluoromethane #(T3) | 75-71-8 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 329 | Chloroform-D | 865-49-6 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 330 | Cumene | 98-82-8 | 730.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 331 | Allyl alcohol | 107-18-6 | 20.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 332 | Ferbam * #(I) | 14484-64-1 | 15.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 333 | Propionitrile-T3* | 107-12-0 | 37.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 334 | Ethyltrichlorosilane T3 | 115-21-9 | 6.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 335 | Boron trifluoride compound with methyl ether (1:1) T3 | 353-42-4 | 7.50 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 336 | Mancozeb | 8018-01-7 | 146.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 337 | Perchloryl fluoride #(T3) | 7616-94-6 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 5.00 |
| 338 | Xylidine #(T3) | 1300-73-8 | 50.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 339 | Arsenic trichloride T3 | 7784-34-1 | 12.50 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 340 | Cyanogen T3 | 460-19-5 | 15.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 341 | Sodium hydrosulfite-T3* | 7775-14-6 | 35.11 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 342 | Mercuric arsenate #(T3 of Hg) | 7784-37-4 | 1.08 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 343 | Trinitrophenol-T3* | 88-89-1 | 8.00 | 4.00 | 4.00 | 0.00 | 1.00 | 3.75 | 1.88 | 1.00 |
| 344 | 1-methyl imidazole LD50 | 616-47-7 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 345 | Bromobenzene #(T3) | 108-86-1 | 350.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 346 | Potassium perchlorate-T3* | 7778-74-7 | 88.24 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 347 | Calcium phosphide SC | 1305-99-3 | 1.80 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 348 | Pentaborane | 19624-22-7 | 0.70 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 349 | Acetone | 67-64-1 | 5700.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 350 | n-Butyl acetate #(E3) | 123-86-4 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 351 | Ethyl benzene | 100-41-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 352 | Isobutyl acetate #(T3) | 110-19-0 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 353 | Diethylamine #(T3) | 109-89-7 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 354 | Isoamyl acetate #(T3) | 123-92-2 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 355 | Methyl Cellosolve (r) #(I) | 109-86-4 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 356 | n-Heptane #(T3) | 142-82-5 | 750.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 357 | Pyridine #(T3) | 110-86-1 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 358 | Triethylamine #(T3) | 121-44-8 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 359 | Piperidine-T3* | 110-89-4 | 250.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 360 | 1,2,3-Trichloropropane #(T3) | 96-18-4 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 314 | Allyl glycidyl ether #(I) | 12.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.25 |
| 315 | Dibutyl phosphate #(T3) | 12.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.25 |
| 316 | p-tert-Butyltoluene #(I) | 12.25 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 14.25 |
| 317 | Iodine pentafluoride R | 12.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.25 |
| 318 | Chlordane * #(T3) | 14.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.25 |
| 319 | Mercury oxycyanide as Hg | 12.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 14.25 |
| 320 | Stibine | 14.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.25 |
| 321 | tert-Butyl chromate #(I) | 14.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.25 |
| 322 | Cyclohexane #(T3) | 7.63 | 26.00 | 2.00 | 75.00 | 4.00 | 6.00 | 0.50 | 14.13 |
| 323 | Acetonitrile | 9.63 | 19.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 14.13 |
| 324 | n-Amyl acetate #(T3) | 9.63 | 14.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 14.13 |
| 325 | n-Propyl alcohol #(T3) | 9.63 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 14.13 |
| 326 | Phosphorus pentasulfide * #(T3) | 10.13 | 12.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 14.13 |
| 327 | Chloroform | 7.50 | 20.00 | 2.00 | 81.00 | 4.00 | 6.00 | 0.50 | 14.00 |
| 328 | Dichlorodifluoromethane #(T3) | 10.00 | 14.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 14.00 |
| 329 | Chloroform-D | 11.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 14.00 |
| 330 | Cumene | 9.00 | 20.00 | 2.00 | 39.00 | 3.00 | 5.00 | 0.00 | 14.00 |
| 331 | Allyl alcohol | 11.00 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 14.00 |
| 332 | Ferbam * #(I) | 12.00 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 14.00 |
| 333 | Propionitrile-T3* | 11.00 | 3.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 14.00 |
| 334 | Ethyltrichlorosilane T3 | 13.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 14.00 |
| 335 | Boron trifluoride compound with methyl ether (1:1) T3 | 13.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 14.00 |
| 336 | Mancozeb | 9.38 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 13.88 |
| 337 | Perchloryl fluoride #(T3) | 12.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.88 |
| 338 | Xylidine #(T3) | 12.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 13.88 |
| 339 | Arsenic trichloride T3 | 12.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 13.88 |
| 340 | Cyanogen T3 | 12.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 13.88 |
| 341 | Sodium hydrosulfite-T3* | 8.88 | 20.00 | 2.00 | 48.00 | 3.00 | 5.00 | 0.00 | 13.88 |
| 342 | Mercuric arsenate #(T3 of Hg) | 13.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 13.88 |
| 343 | Trinitrophenol-T3* | 10.88 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 13.88 |
| 344 | 1-methyl imidazole LD50 | 10.25 | 8.00 | 0.00 | 22.00 | 3.00 | 3.00 | 0.50 | 13.75 |
| 345 | Bromobenzene #(T3) | 10.25 | 8.00 | 0.00 | 34.00 | 3.00 | 3.00 | 0.50 | 13.75 |
| 346 | Potassium perchlorate-T3* | 10.75 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 13.75 |
| 347 | Calcium phosphide SC | 12.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.75 |
| 348 | Pentaborane | 13.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.75 |
| 349 | Acetone | 5.63 | 30.00 | 3.00 | 146.00 | 5.00 | 8.00 | 0.00 | 13.63 |
| 350 | n-Butyl acetate #(E3) | 5.63 | 30.00 | 3.00 | 124.00 | 5.00 | 8.00 | 0.00 | 13.63 |
| 351 | Ethyl benzene | 7.63 | 21.00 | 2.00 | 51.00 | 4.00 | 6.00 | 0.00 | 13.63 |
| 352 | Isobutyl acetate #(T3) | 7.63 | 21.00 | 2.00 | 56.00 | 4.00 | 6.00 | 0.00 | 13.63 |
| 353 | Diethylamine #(T3) | 9.63 | 16.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 354 | Isoamyl acetate #(T3) | 9.63 | 13.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 355 | Methyl Cellosolve (r) #(I) | 9.63 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 356 | n-Heptane #(T3) | 9.63 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 357 | Pyridine #(T3) | 9.63 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 358 | Triethylamine #(T3) | 9.63 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 359 | Piperidine-T3* | 9.63 | 11.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.00 | 13.63 |
| 360 | 1,2,3-Trichloropropane #(T3) | 11.63 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 13.63 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 361 | Phenyl glycidyl ether #(I) | 122-60-1 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 362 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 76-13-1 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 363 | Tetrachloroethylene | 127-18-4 | 1200.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 364 | Dioxane | 123-91-1 | 760.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 365 | Acrylamide * #(T3) | 79-06-1 | 20.64 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 366 | DDT * #(T3) | 50-29-3 | 34.49 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 367 | Toxaphene #(T3 based on Keplinger 1963 study) | 8001-35-2 | 29.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 368 | Dinitrotoluene * #(T3) | 25321-14-6 | 6.70 | 4.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 369 | Diethyleneglycol dinitrate R | 693-21-0 | 0.31 | 5.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 2.50 |
| 370 | Methylene chloride | 75-09-2 | 6900.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 371 | Styrene | 100-42-5 | 1100.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 372 | Methyltrichlorosilane-E3[a] | 75-79-6 | 15.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 373 | Dimethyldichlorosilane T3 | 75-78-5 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 374 | Tetranitromethane | 509-14-8 | 1.70 | 4.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 375 | Ethylene T3 | 74-85-1 | 15000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 376 | 2-Butoxyethanol #(T3) | 111-76-2 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 377 | 2-Ethoxyethanol #(T3) | 110-80-5 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 378 | 2-Ethoxyethyl acetate #(T3) | 111-15-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 379 | Diisobutyl ketone #(T3) | 108-83-8 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 380 | Methyl isobutyl carbinol #(I) | 108-11-2 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 381 | n-Butyl glycidyl ether #(T3) | 2426-08-6 | 250.00 | 2.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 382 | Nitrogen trifluoride #(T3) | 7783-54-2 | 800.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 383 | o-Dichlorobenzene #(T3) | 95-50-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 384 | Triethyl phosphite-T3* | 122-52-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 385 | 5-Methyl 3-heptanone #(I) | 541-85-5 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 386 | Trypan blue #(T3) | 72-57-1 | 14.02 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 387 | Butyltrichlorosilane SC | 7521-80-4 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 388 | Octyltrichlorosilane-A3* (60min | 5283-66-9 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 389 | Aluminum phosphide *T3 | 20859-73-8 | 8.44 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 390 | Thioglycol TEEL-3 | 60-24-2 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 391 | p-Nitroaniline * #(T3) | 100-01-6 | 53.10 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 392 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 76-11-9 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 393 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 76-12-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 394 | Profenofos #(I) | 41198-08-7 | 1600.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 395 | Allyl chloride | 107-05-1 | 140.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 396 | Carbon disulfide | 75-15-0 | 480.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 397 | Ethyl silicate #(E3) | 78-10-4 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 398 | Hexachloroethane #(T3) | 67-72-1 | 300.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 399 | Isopropylamine #(T3) | 75-31-0 | 750.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 400 | 2,4,5-T * #(T3) | 93-76-5 | 23.92 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 401 | ANTU * #(T3) | 86-88-4 | 12.10 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 402 | Benzoyl peroxide* #(T3) | 94-36-0 | 50.47 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 403 | Bromodiolone (Rat Inh. LC50) | 54149-17-6 | 23.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 361 | Phenyl glycidyl ether #(I) | 11.63 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 13.63 |
| 362 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 9.50 | 12.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 363 | Tetrachloroethylene | 9.50 | 17.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 364 | Dioxane | 9.00 | 12.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 13.50 |
| 365 | Acrylamide * #(T3) | 9.50 | 14.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 13.50 |
| 366 | DDT * #(T3) | 12.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 13.50 |
| 367 | Toxaphene #(T3 based on Keplinger 1963 study) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 13.50 |
| 368 | Dinitrotoluene * #(T3) | 11.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 13.50 |
| 369 | Diethyleneglycol dinitrate R | 12.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 13.50 |
| 370 | Methylene chloride | 6.88 | 21.00 | 2.00 | 83.00 | 4.00 | 6.00 | 0.50 | 13.38 |
| 371 | Styrene | 6.38 | 28.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.00 | 13.38 |
| 372 | Methyltrichlorosilane-E3[a] | 10.38 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 13.38 |
| 373 | Dimethyldichlorosilane T3 | 10.38 | 4.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 13.38 |
| 374 | Tetranitromethane | 12.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.38 |
| 375 | Ethylene T3 | 6.25 | 20.00 | 2.00 | 173.00 | 5.00 | 7.00 | 0.00 | 13.25 |
| 376 | 2-Butoxyethanol #(T3) | 10.25 | 1.00 | 0.00 | 43.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 377 | 2-Ethoxyethanol #(T3) | 10.25 | 1.00 | 0.00 | 31.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 378 | 2-Ethoxyethyl acetate #(T3) | 10.25 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 379 | Diisobutyl ketone #(T3) | 10.25 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 380 | Methyl isobutyl carbinol #(I) | 10.25 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 381 | n-Butyl glycidyl ether #(T3) | 10.25 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 382 | Nitrogen trifluoride #(T3) | 10.25 | 7.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 383 | o-Dichlorobenzene #(T3) | 10.25 | 9.00 | 0.00 | 37.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 384 | Triethyl phosphite-T3* | 10.25 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 385 | 5-Methyl 3-heptanone #(I) | 12.25 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 13.25 |
| 386 | Trypan blue #(T3) | 10.75 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 13.25 |
| 387 | Butyltrichlorosilane SC | 12.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 13.25 |
| 388 | Octyltrichlorosilane-A3* (60min | 12.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 13.25 |
| 389 | Aluminum phosphide *T3 | 10.25 | 2.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 13.25 |
| 390 | Thioglycol TEEL-3 | 9.63 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.50 | 13.13 |
| 391 | p-Nitroaniline * #(T3) | 10.13 | 5.00 | 0.00 | 47.00 | 3.00 | 3.00 | 0.00 | 13.13 |
| 392 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 12.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 393 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 394 | Profenofos #(I) | 9.50 | 4.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 13.00 |
| 395 | Allyl chloride | 9.00 | 11.00 | 1.00 | 19.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 396 | Carbon disulfide | 9.00 | 16.00 | 1.00 | 45.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 397 | Ethyl silicate #(E3) | 9.00 | 10.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 398 | Hexachloroethane #(T3) | 10.00 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 13.00 |
| 399 | Isopropylamine #(T3) | 9.00 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 13.00 |
| 400 | 2,4,5-T * #(T3) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 401 | ANTU * #(T3) | 12.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 402 | Benzoyl peroxide* #(T3) | 7.00 | 22.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 13.00 |
| 403 | Bromodiolone (Rat Inh. LC50) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 404 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 300-76-5 | 12.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 405 | Methoxychlor * #(T3) | 72-43-5 | 35.37 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 406 | Pindone * #(I) | 83-26-1 | 10.62 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 407 | Rotenone * #(T3) | 83-79-4 | 30.99 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 408 | Tetryl * #(T3) | 479-45-8 | 42.57 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 409 | Allylamine *T3 | 107-11-9 | 18.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 410 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 126-33-0 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 411 | Carbonyl sulfide T3 | 463-58-1 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 412 | 1,1-Dimethylhydrazine | 57-14-7 | 11.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 413 | Aqua Regia *T3 | 8007-56-5 | 35.01 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 414 | Hexachlorobenzene | 118-74-1 | 17.17 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 415 | p-Dichlorobenzene #(T3) | 106-46-7 | 150.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 416 | Propylene oxide | 75-56-9 | 870.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 417 | Trichlorosilane-E3* | 10025-78-2 | 25.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 418 | Aluminum bromide, anydrous as AlCl3 | 7727-15-3 | 44.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 419 | Diglycidyl ether #(T3) | 2238-07-5 | 10.00 | 4.00 | 4.00 | 0.00 | 2.00 | 2.50 | 1.25 | 2.50 |
| 420 | Ethyleneimine | 151-56-4 | 9.90 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 421 | Tetramethyl succinonitrile #(I) | 3333-52-6 | 5.00 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 422 | Tetramethyllead-T3* | 75-74-1 | 4.57 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 423 | Diisopropylamine #(T3) | 108-18-9 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 424 | Isophorone #(T3) | 78-59-1 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 425 | n-Butylamine #(T3) | 109-73-9 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 426 | Octane #(T3) | 111-65-9 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 427 | Propylene dichloride #(T3) | 78-87-5 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 428 | Hydrazine | 302-01-2 | 35.00 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 429 | Methyl thiocyanate-T3* | 1556-64-9 | 28.40 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 430 | Dodecyltrichlorosilane Sc | 4484-72-41 | 33.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 431 | Bromine pentafluoride T3 | 7789-30-2 | 35.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 432 | Bromine trifluoride T3 | 7787-71-5 | 89.30 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 433 | Ethane T3 | 74-84-0 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 434 | Azinphos-ethyl *T3 | 2642-71-9 | 10.63 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 435 | Decaborane * #(T3) | 17702-41-9 | 3.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 436 | Trichloroethylene | 79-01-6 | 3800.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 437 | Ethyl ether #(T3) | 60-29-7 | 1900.00 | 1.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 438 | Ammonium sulfamate * #(T3) | 7773-06-0 | 107.10 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 439 | Ethyl acrylate | 140-88-5 | 240.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 440 | Methyl acrylate #(T3) | 96-33-3 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 441 | Methyl methacrylate | 80-62-6 | 570.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 442 | Acetyl Chloride *T3 | 75-36-5 | 125.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 443 | Vinyl acetate monomer-E3* | 108-05-4 | 500.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 444 | Chlorinated camphene * #(T3) | 8001-35-2 | 11.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 445 | Crotonaldehyde | 4170-30-3 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 446 | Terphenyls * #(I) | 92-06-8; 84-15-1; 92-94-4 | 53.08 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 447 | Diacetone alcohol #(T3) | 123-42-2 | 1800.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 404 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 12.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 405 | Methoxychlor * #(T3) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 406 | Pindone * #(I) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 407 | Rotenone * #(T3) | 12.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 408 | Tetryl * #(T3) | 12.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 13.00 |
| 409 | Allylamine *T3 | 11.00 | 5.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 13.00 |
| 410 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 10.88 | 5.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 12.88 |
| 411 | Carbonyl sulfide T3 | 10.88 | 2.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 12.88 |
| 412 | 1,1-Dimethylhydrazine | 10.38 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 12.88 |
| 413 | Aqua Regia *T3 | 12.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.88 |
| 414 | Hexachlorobenzene | 11.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 12.88 |
| 415 | p-Dichlorobenzene #(T3) | 8.75 | 10.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 12.75 |
| 416 | Propylene oxide | 7.75 | 16.00 | 1.00 | 54.00 | 4.00 | 5.00 | 0.00 | 12.75 |
| 417 | Trichlorosilane-E3* | 9.75 | 4.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 12.75 |
| 418 | Aluminum bromide, anydrous as AlCl3 | 10.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 12.75 |
| 419 | Diglycidyl ether #(T3) | 11.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.75 |
| 420 | Ethyleneimine | 11.75 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.75 |
| 421 | Tetramethyl succinonitrile #(I) | 12.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.75 |
| 422 | Tetramethyllead-T3* | 11.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 12.75 |
| 423 | Diisopropylamine #(T3) | 9.63 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 424 | Isophorone #(T3) | 9.63 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 425 | n-Butylamine #(T3) | 9.63 | 8.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 426 | Octane #(T3) | 9.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 427 | Propylene dichloride #(T3) | 9.63 | 9.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 12.63 |
| 428 | Hydrazine | 9.13 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 12.63 |
| 429 | Methyl thiocyanate-T3* | 11.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 12.63 |
| 430 | Dodecyltrichlorosilane Sc | 11.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.63 |
| 431 | Bromine pentafluoride T3 | 11.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.63 |
| 432 | Bromine trifluoride T3 | 11.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 12.63 |
| 433 | Ethane T3 | 7.50 | 28.00 | 2.00 | 33.00 | 3.00 | 5.00 | 0.00 | 12.50 |
| 434 | Azinphos-ethyl *T3 | 12.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 12.50 |
| 435 | Decaborane * #(T3) | 11.50 | 2.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.50 |
| 436 | Trichloroethylene | 6.88 | 17.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.50 | 12.38 |
| 437 | Ethyl ether #(T3) | 6.38 | 20.00 | 2.00 | 57.00 | 4.00 | 6.00 | 0.00 | 12.38 |
| 438 | Ammonium sulfamate * #(T3) | 9.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 12.38 |
| 439 | Ethyl acrylate | 8.38 | 16.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 440 | Methyl acrylate #(T3) | 8.38 | 16.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 441 | Methyl methacrylate | 8.38 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 442 | Acetyl Chloride *T3 | 8.38 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 12.38 |
| 443 | Vinyl acetate monomer-E3* | 8.38 | 4.00 | 0.00 | 53.00 | 4.00 | 4.00 | 0.00 | 12.38 |
| 444 | Chlorinated camphene * #(T3) | 11.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.38 |
| 445 | Crotonaldehyde | 10.38 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 12.38 |
| 446 | Terphenyls * #(I) | 11.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 12.38 |
| 447 | Diacetone alcohol #(T3) | 8.25 | 11.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 12.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 448 | 1,2-dimethylimidazole LD50 | 1739-84-0 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 449 | Tetrahydrofuran #(T3) | 109-99-9 | 5000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 450 | Ethyl bromide #(T3) | 74-96-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 451 | Dichlorotetrafluoroethane #(T3) | 76-14-2 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 452 | Trifluorobromomethane #(T3) | 75-63-8 | 40000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 453 | Graphite #(T3) | 7782-42-5 | 1017.90 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 454 | n-Pentane #(T3) | 109-66-0 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 455 | Trimethyl phosphite-T3* | 121-45-9 | 750.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 456 | Ethylene glycol dinitrate #(I) | 628-96-6 | 12.06 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 457 | Ronnel #(I) | 299-84-3 | 22.81 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 458 | Propyltrichlorosilane-A3* (60 min | 141-57-1 | 33.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 459 | Hexyltrichlorosilane T3 | 928-65-4 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 460 | Octadecyltrichlorosilane-A3* (60min | 112-04-9 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 461 | Ethyl nitrite T3 | 109-95-5 | 60.00 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 5.00 |
| 462 | Chlorobromomethane #(T3) | 74-97-5 | 2000.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 463 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8003-34-7 | 326.87 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 464 | Lithium nitride-T3* | 26134-62-3 | 7.02 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 465 | Acetaldehyde | 75-07-0 | 840.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 466 | Dipropylene glycol methyl ether #(T3) | 34590-94-8 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 467 | Methyl Cellosolve (r) acetate #(I) | 110-49-6 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 468 | n-Hexane | 110-54-3 | 8600.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 469 | Isopropyl acetate #(T3) | 108-21-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 470 | n-Propyl acetate #(I) | 109-60-4 | 1700.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 471 | sec-Butyl alcohol #(T3) | 78-92-2 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 472 | tert-Butyl alcohol #(T3) | 75-65-0 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 473 | Glycidol #(I) | 556-52-5 | 150.00 | 2.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 474 | n-Butyl mercaptan #(T3) | 109-79-5 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 475 | Turpentine #(T3) | 8006-64-2 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 476 | Isobutyronitrile-E3* | 78-82-0 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 477 | Germane T3 | 7782-65-2 | 150.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 478 | Methyl chloride | 74-87-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 479 | 1-Butene T3 | 106-98-9 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 480 | 2-Butene T3 | 107-01-7 | 300.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 481 | Trinitrotoluene | 118-96-7 | 55.32 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 482 | Tetramethylsilane-T3* | 75-76-3 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 483 | Trimethylchlorosilane-E3* | 75-77-44 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 484 | 2-Nitropropane #(T3) | 79-46-9 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 485 | Furan T3 | 110-00-9 | 19.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 486 | Crotonaldehyde, (E)- T3 | 123-73-9 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 487 | Allyltrichlorosilane, stabilized as allyl chloride | 107-37-9 | 20.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 488 | Methacrylonitrile-T3* | 126-98-7 | 25.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 489 | Cyclopentadiene #(I) | 542-92-7 | 750.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 490 | Ethyl butyl ketone #(T3) | 106-35-4 | 1000.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 491 | Methylcyclohexanol #(I) | 25639-42-3 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 492 | o-Methylcyclohexanone #(T3) | 583-60-8 | 600.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 448 | 1,2-dimethylimidazole LD50 | 8.75 | 5.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 12.25 |
| 449 | Tetrahydrofuran #(T3) | 5.63 | 21.00 | 2.00 | 65.00 | 4.00 | 6.00 | 0.50 | 12.13 |
| 450 | Ethyl bromide #(T3) | 7.63 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 12.13 |
| 451 | Dichlorotetrafluoroethane #(T3) | 10.00 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 452 | Trifluorobromomethane #(T3) | 10.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 12.00 |
| 453 | Graphite #(T3) | 8.00 | 16.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 454 | n-Pentane #(T3) | 7.00 | 20.00 | 2.00 | 47.00 | 3.00 | 5.00 | 0.00 | 12.00 |
| 455 | Trimethyl phosphite-T3* | 9.00 | 4.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 12.00 |
| 456 | Ethylene glycol dinitrate #(I) | 11.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 457 | Ronnel #(I) | 12.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.00 |
| 458 | Propyltrichlorosilane-A3* (60 min | 11.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 459 | Hexyltrichlorosilane T3 | 11.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 460 | Octadecyltrichlorosilane-A3* (60min | 11.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 461 | Ethyl nitrite T3 | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 12.00 |
| 462 | Chlorobromomethane #(T3) | 8.88 | 7.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 11.88 |
| 463 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 10.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 11.88 |
| 464 | Lithium nitride-T3* | 10.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.88 |
| 465 | Acetaldehyde | 7.75 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 11.75 |
| 466 | Dipropylene glycol methyl ether #(T3) | 8.75 | 7.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.00 | 11.75 |
| 467 | Methyl Cellosolve (r) acetate #(I) | 8.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 11.75 |
| 468 | n-Hexane | 5.63 | 23.00 | 2.00 | 78.00 | 4.00 | 6.00 | 0.00 | 11.63 |
| 469 | Isopropyl acetate #(T3) | 7.63 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 470 | n-Propyl acetate #(I) | 7.63 | 12.00 | 1.00 | 31.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 471 | sec-Butyl alcohol #(T3) | 7.63 | 12.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 472 | tert-Butyl alcohol #(T3) | 7.63 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 11.63 |
| 473 | Glycidol #(I) | 9.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 474 | n-Butyl mercaptan #(T3) | 9.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 475 | Turpentine #(T3) | 9.63 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 476 | Isobutyronitrile-E3* | 9.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 477 | Germane T3 | 9.63 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.63 |
| 478 | Methyl chloride | 7.50 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 11.50 |
| 479 | 1-Butene T3 | 7.50 | 15.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 11.50 |
| 480 | 2-Butene T3 | 11.50 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.50 |
| 481 | Trinitrotoluene | 7.00 | 11.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 11.50 |
| 482 | Tetramethylsilane-T3* | 8.38 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 11.38 |
| 483 | Trimethylchlorosilane-E3* | 8.38 | | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 11.38 |
| 484 | 2-Nitropropane #(T3) | 10.38 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 11.38 |
| 485 | Furan T3 | 10.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.38 |
| 486 | Crotonaldehyde, (E)- T3 | 10.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 11.38 |
| 487 | Allyltrichlorosilane, stabilized as allyl chloride | 10.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 11.38 |
| 488 | Methacrylonitrile-T3* | 10.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 11.38 |
| 489 | Cyclopentadiene #(I) | 10.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 490 | Ethyl butyl ketone #(T3) | 10.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 491 | Methylcyclohexanol #(I) | 10.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 492 | o-Methylcyclohexanone #(T3) | 10.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 493 | Magnesium phosphide- Rentokil MSDS* | 12057-74-8 | 2.40 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 494 | Pentaerythrite tetranitrate #(T3) | 78-11-5 | 38.97 | 3.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 1.00 |
| 495 | Dichloromonofluoromethane #(T3) | 75-43-4 | 5000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 496 | Isopropyl ether #(T3) | 108-20-3 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 497 | beta-Chloroprene #(T3) | 126-99-8 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 498 | Methyl chloroform | 71-55-6 | 4200.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 499 | Vinyl chloride-T3* | 75-01-4 | 20000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 500 | Methyl ether-T3* | 115-10-6 | 60000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 501 | Difluoroethane T3 | 75-37-6 | 75000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 502 | Isoflurane #(IDLH of halgenated ethers-general) | 26675-46-7 | 2000.00 | 1.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 503 | Vinylidene chloride, inhibited-T3 | 75-35-4 | 600.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 504 | Propylene imine | 75-55-8 | 23.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 505 | 2-Butanone | 78-93-3 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 506 | 2-Pentanone #(T3) | 107-87-9 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 507 | Cyclohexene #(T3) | 110-83-8 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 508 | Ethyl formate #(I) | 109-94-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 509 | Methylcyclohexane #(T3) | 108-87-2 | 1200.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 510 | Nitromethane #(T3) | 75-52-5 | 750.00 | 2.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 511 | sec-Amyl acetate #(T3) | 626-38-0 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 512 | Trifluorochloroethylene-E3* | 79-38-9 | 300.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 513 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 18810-58-7 | 1.38 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 514 | Ethyl chloride #(T3) | 75-00-3 | 3800.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 515 | Difluorodibromomethane #(I) | 75-61-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 516 | Ammonium perchlorate T3 | 7790-98-9 | 104.05 | 2.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 1.00 |
| 517 | 1,3- pentadiene-R*B97 | 504-60-9 | 280.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 518 | 1-Chloro-1-nitropropane #(I) | 600-25-9 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 2.50 |
| 519 | sec Hexyl acetate #(I) | 108-84-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 520 | Lithium #(T3) | 7439-93-2 | 1409.20 | 1.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 521 | tert-Butyl acetate #(T3) | 540-88-5 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 522 | Vinyl toluene #(I) | 25013-15-4 | 400.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 523 | Amyltrichlorosilane R | 107-72-2 | 500.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 524 | Thiodiglycol-Alfa MSDS*B71 | 111-48-8 | 4150.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 525 | 2-methylpropene-T3* | 115-11-7 | 100000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 526 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 22160-08-3 | 110.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 527 | Nitroethane #(T3) | 79-24-3 | 1000.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 528 | Acetyl Iodide (as acetyl bromide) T3 | 507-02-8 | 20.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 529 | Methyl acetate #(I) | 79-20-9 | 3100.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 530 | Silane-T3* | 7803-62-5 | 4000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 531 | 2-Butene-trans T3 | 624-64-6 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 532 | 2-Butene-cis T3 | 590-18-1 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 533 | Morpholine #(T3) | 110-91-8 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 534 | 1,2-Dichloroethylene #(T3) | 540-59-0 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 535 | 1-Nitropropane #(I) | 108-03-2 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 493 | Magnesium phosphide- Rentokil MSDS* | 10.25 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.25 |
| 494 | Pentaerythrite tetranitrate #(T3) | 7.63 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 11.13 |
| 495 | Dichloromonofluoromethane #(T3) | 10.00 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 496 | Isopropyl ether #(T3) | 7.00 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 11.00 |
| 497 | beta-Chloroprene #(T3) | 9.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 11.00 |
| 498 | Methyl chloroform | 6.88 | 14.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 499 | Vinyl chloride-T3* | 6.88 | 6.00 | 0.00 | 63.00 | 4.00 | 4.00 | 0.00 | 10.88 |
| 500 | Methyl ether-T3* | 6.88 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 501 | Difluoroethane T3 | 6.88 | 14.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 10.88 |
| 502 | Isoflurane #(IDLH of halgenated ethers-general) | 8.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.50 | 10.75 |
| 503 | Vinylidene chloride, inhibited-T3* | 7.75 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 10.75 |
| 504 | Propylene imine | 9.75 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 10.75 |
| 505 | 2-Butanone | 5.63 | 18.00 | 1.00 | 63.00 | 4.00 | 5.00 | 0.00 | 10.63 |
| 506 | 2-Pentanone #(T3) | 7.63 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 507 | Cyclohexene #(T3) | 7.63 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 508 | Ethyl formate #(I) | 7.63 | 6.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 509 | Methylcyclohexane #(T3) | 7.63 | 9.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 10.63 |
| 510 | Nitromethane #(T3) | 7.13 | 7.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 10.63 |
| 511 | sec-Amyl acetate #(T3) | 9.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 512 | Trifluorochloroethylene-E3* | 9.63 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 513 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 9.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.63 |
| 514 | Ethyl chloride #(T3) | 7.50 | 8.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 10.50 |
| 515 | Difluorodibromomethane #(I) | 9.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.50 |
| 516 | Ammonium perchlorate T3 | 7.50 | 2.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 10.50 |
| 517 | 1,3- pentadiene-R*B97 | 8.38 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 10.38 |
| 518 | 1-Chloro-1-nitropropane #(I) | 10.38 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.38 |
| 519 | sec Hexyl acetate #(I) | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 520 | Lithium #(T3) | 5.50 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 10.00 |
| 521 | tert-Butyl acetate #(T3) | 7.00 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 10.00 |
| 522 | Vinyl toluene #(I) | 9.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 523 | Amyltrichlorosilane R | 9.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 10.00 |
| 524 | Thiodiglycol-Alfa MSDS*B71 | 6.88 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 9.88 |
| 525 | 2-methylpropene-T3* | 6.88 | 3.00 | 0.00 | 40.00 | 3.00 | 3.00 | 0.00 | 9.88 |
| 526 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 9.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 9.88 |
| 527 | Nitroethane #(T3) | 7.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 9.75 |
| 528 | Acetyl Iodide (as acetyl bromide) T3 | 9.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.75 |
| 529 | Methyl acetate #(I) | 5.63 | 15.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 9.63 |
| 530 | Silane-T3* | 5.63 | 16.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 9.63 |
| 531 | 2-Butene-trans T3 | 7.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 532 | 2-Butene-cis T3 | 7.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 9.50 |
| 533 | Morpholine #(T3) | 5.50 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 534 | 1,2-Dichloroethylene #(T3) | 8.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 535 | 1-Nitropropane #(I) | 8.38 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 9.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 536 | Ethyl mercaptan | 75-08-1 | 360.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 537 | Isopropyl glycidyl ether #(I) | 4016-14-2 | 400.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 538 | Trinitrochlorobenzene-T3* | 88-88-0 | 24.69 | 3.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 539 | Methylal #(T3) | 109-87-5 | 2200.00 | 0.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 540 | Isopentane-T3* | 78-78-4 | 20000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 541 | Mesityl oxide #(T3) | 141-79-7 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 542 | Dinitrophenol, Dry or wet T3 | 25550-58-7 (51-28-5) | 3.32 | 4.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 543 | 2-Hexanone #(T3) | 591-78-6 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 544 | sec-Butyl acetate #(T3) | 105-46-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 545 | Ammonium Picrate T3 | 131-74-8 | 24.83 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 546 | HMX T3 | 2691-41-0 | 41.28 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 547 | Dimethylpropane, 2,2- T3 | 463-82-1 | 50000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 548 | Cyclopropane T3 | 75-19-4 | 60000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 549 | Methyldichlorosilane-R* | 75-54-7 | 1200.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 550 | Vinyltrichlorosilane-R* | 75-94-5 | 2000.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 551 | Propadiene-T3* | 463-49-0 | 4000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 552 | Vinylidene fluoride-T3* | 75-38-7 | 12500.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 553 | Methoxyflurane #(IDLH of halgenated ethers-general) | 76-38-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 554 | Methyl formate #(T3) | 107-31-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 555 | Isoproyl chloride-T3* | 75-29-6 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 556 | Vinyl ethyl ether-T3* | 109-92-2 | 1500.00 | 1.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 557 | Tetrafluoroethylene-E3* | 116-14-3 | 10000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 558 | Vinyl fluoride-T3* | 75-02-5 | 150000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 559 | Vinyl methyl ether-R* | 107-25-5 | 64000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 560 | Methyl acetylene #(T3) | 74-99-7 | 1700.00 | 1.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 561 | Isoprene-T3* | 78-79-5 | 25000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 562 | 1,1-Dichloroethane #(T3) | 75-34-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 563 | Ethyl acetylene (as ethylene) | 107-00-6 | 15000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 564 | 2-Chloropropylene T3 | 557-98-2 | 35000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 565 | n-Propyl nitrate #(T3) | 627-13-4 | 1160.00 | 1.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 566 | 1-Chloropropylene R | 590-21-6 | 8000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 567 | 1-pentene-T3* | 109-67-1 | 30000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 568 | 2-Methyl-1-butene-T3* | 563-46-2 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 569 | Diethyldichlorosilane R | 1719-53-5 | 4668.58 | 0.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 570 | Vinyl acetylene-R* | 689-97-4 | 105000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 536 | Ethyl mercaptan | 8.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 537 | Isopropyl glycidyl ether #(I) | 8.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 538 | Trinitrochlorobenzene-T3* | 8.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 9.25 |
| 539 | Methylal #(T3) | 5.00 | 10.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 540 | Isopentane-T3* | 5.00 | 17.00 | 1.00 | 29.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 541 | Mesityl oxide #(T3) | 7.00 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 9.00 |
| 542 | Dinitrophenol, Dry or wet T3 | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 543 | 2-Hexanone #(T3) | 7.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 544 | sec-Butyl acetate #(T3) | 7.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 545 | Ammonium Picrate T3 | 7.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 546 | HMX T3 | 7.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 8.63 |
| 547 | Dimethylpropane, 2,2- T3 | 7.50 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 548 | Cyclopropane T3 | 7.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 8.50 |
| 549 | Methyldichlorosilane-R* | 6.38 | 2.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 8.38 |
| 550 | Vinyltrichlorosilane-R* | 6.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 8.38 |
| 551 | Propadiene-T3* | 6.25 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 8.25 |
| 552 | Vinylidene fluoride-T3* | 6.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 8.25 |
| 553 | Methoxyflurane #(IDLH of halgenated ethers-general) | 6.75 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 8.25 |
| 554 | Methyl formate #(T3) | 5.00 | 8.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 555 | Isoproyl chloride-T3* | 5.00 | 1.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 556 | Vinyl ethyl ether-T3* | 5.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.75 |
| 557 | Tetrafluoroethylene-E3* | 5.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.63 |
| 558 | Vinyl fluoride-T3* | 6.25 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 7.25 |
| 559 | Vinyl methyl ether-R* | 6.25 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.25 |
| 560 | Methyl acetylene #(T3) | 5.13 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 7.13 |
| 561 | Isoprene-T3* | 3.75 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 562 | 1,1-Dichloroethane #(T3) | 5.63 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.63 |
| 563 | Ethyl acetylene (as ethylene) | 5.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.63 |
| 564 | 2-Chloropropylene T3 | 4.38 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.38 |
| 565 | n-Propyl nitrate #(T3) | 5.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.75 |
| 566 | 1-Chloropropylene R | 4.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 567 | 1-pentene-T3* | 4.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 568 | 2-Methyl-1-butene-T3* | 4.38 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 569 | Diethyldichlorosilane R | 4.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 570 | Vinyl acetylene-R* | 3.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Chlorine | 7782-50-5 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 2 | Hydrogen chloride | 7647-01-0 | 100.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 3 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 5.00 |
| 4 | Ammonia | 7664-41-7 | 1100.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 5 | Sulfuric acid | 7664-93-9 | 7.47 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 6 | Calcium Carbonate #(T3) | 471-34-1 | 3.66 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 7 | Nitric acid | 7697-37-2 | 92.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 8 | Hydrogen fluoride | 7664-39-3 | 44.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 9 | Sulfur dioxide | 7446-09-5 | 30.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 10 | Phosgene | 75-44-5 | 0.75 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 11 | Calcium chloride | 10043-52-4 | 88.19 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 12 | Isobutane-T3* | 75-28-5 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 13 | Hydrogen T3 | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 14 | Acetic acid #(T3) | 64-19-7 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 15 | Kerosene #(T3) | 8008-20-6 | 57.53 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 16 | Copper sulfate #(T3) | 7758-98-7 | 3.92 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 17 | Sodium Sulfate #(T3) | 7757-82-6 | 21.52 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 18 | Gypsum #(T3 as K2CO3) | 13397-24-5 | 88.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 19 | Hydrogen bromide | 10035-10-6 | 120.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 20 | Nitric oxide #(I) | 10102-43-9 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 21 | Phosphoric acid *#(T3) | 7664-38-2 | 124.70 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 22 | Propylene-T3* | 115-07-1 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 23 | Hydrogen peroxide #(E3) | 7722-84-1 | 100.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 24 | OMPA | 152-16-9 | 0.30 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 25 | Propane | 74-98-6 | 33000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 26 | Diethylene glycol | 111-46-6 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.00 |
| 27 | Boron trifluoride * | 7637-07-2 | 39.66 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 28 | Ammonium nitrate, no organic coating T3 | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 29 | Ammonium nitrate, with organic coating | 6484-52-2 | 152.73 | 2.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 30 | Dibasic sodium phosphate | 10039-32-4 | 25.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 31 | Silica #(T3) | 7631-86-9 | 203.72 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 32 | Sodium bicarbonate #(T3) | 144-55-8 | 145.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 33 | Sodium chloride #(T3) | 7647-14-5 | 209.19 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 34 | Sodium dodecyl sulfate #(T3) | 151-21-3 | 42.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 35 | Zinc | 7440-66-6 | 74.79 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 36 | Selenium hexafluoride | 7783-79-1 | 0.26 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 37 | Chloroacetyl chloride E3 | 79-04-9 | 10.00 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 38 | Dibutyl phthalate *#(T3) | 84-74-2 | 43.90 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 39 | Ethyl alcohol #(T3) | 64-17-5 | 3300.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 40 | Acetylene *T3 | 74-86-2 | 6000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 41 | Mercury | 7439-97-6 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 42 | Bromine | 7726-95-6 | 8.50 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 43 | Chlorine dioxide | 10049-04-4 | 2.40 | 4.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |
| 44 | Oleum-E3* | 8014-95-7 | 4.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 45 | Calcium Hydroxide #(T3) | 1305-62-0 | 165.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 1 | Chlorine | 13.00 | 63.00 | 5.00 | 344.00 | 5.00 | 10.00 | 23.00 |
| 2 | Hydrogen chloride | 12.38 | 63.00 | 5.00 | 528.00 | 5.00 | 10.00 | 22.38 |
| 3 | Formaldehyde (Formalin solution-37% methanol) E3 | 11.75 | 53.00 | 5.00 | 260.00 | 5.00 | 10.00 | 21.75 |
| 4 | Ammonia | 10.38 | 56.00 | 5.00 | 348.00 | 5.00 | 10.00 | 20.38 |
| 5 | Sulfuric acid | 10.25 | 66.00 | 5.00 | 544.00 | 5.00 | 10.00 | 20.25 |
| 6 | Calcium Carbonate #(T3) | 10.00 | 52.00 | 5.00 | 309.00 | 5.00 | 10.00 | 20.00 |
| 7 | Nitric acid | 10.50 | 49.00 | 4.00 | 226.00 | 5.00 | 9.00 | 19.50 |
| 8 | Hydrogen fluoride | 12.38 | 25.00 | 2.00 | 138.00 | 5.00 | 7.00 | 19.38 |
| 9 | Sulfur dioxide | 13.00 | 27.00 | 2.00 | 79.00 | 4.00 | 6.00 | 19.00 |
| 10 | Phosgene | 14.38 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 18.38 |
| 11 | Calcium chloride | 9.00 | 43.00 | 4.00 | 208.00 | 5.00 | 9.00 | 18.00 |
| 12 | Isobutane-T3* | 7.50 | 68.00 | 5.00 | 409.00 | 5.00 | 10.00 | 17.50 |
| 13 | Hydrogen T3 | 7.50 | 70.00 | 5.00 | 340.00 | 5.00 | 10.00 | 17.50 |
| 14 | Acetic acid #(T3) | 8.25 | 40.00 | 4.00 | 186.00 | 5.00 | 9.00 | 17.25 |
| 15 | Kerosene #(T3) | 9.25 | 35.00 | 3.00 | 102.00 | 5.00 | 8.00 | 17.25 |
| 16 | Copper sulfate #(T3) | 10.00 | 29.00 | 2.00 | 188.00 | 5.00 | 7.00 | 17.00 |
| 17 | Sodium Sulfate #(T3) | 9.00 | 36.00 | 3.00 | 200.00 | 5.00 | 8.00 | 17.00 |
| 18 | Gypsum #(T3 as K2CO3) | 9.00 | 36.00 | 3.00 | 127.00 | 5.00 | 8.00 | 17.00 |
| 19 | Hydrogen bromide | 12.00 | 16.00 | 1.00 | 73.00 | 4.00 | 5.00 | 17.00 |
| 20 | Nitric oxide #(I) | 13.00 | 11.00 | 1.00 | 12.00 | 3.00 | 4.00 | 17.00 |
| 21 | Phosphoric acid *#(T3) | 8.00 | 49.00 | 4.00 | 245.00 | 5.00 | 9.00 | 17.00 |
| 22 | Propylene-T3* | 6.88 | 52.00 | 5.00 | 211.00 | 5.00 | 10.00 | 16.88 |
| 23 | Hydrogen peroxide #(E3) | 8.63 | 38.00 | 3.00 | 172.00 | 5.00 | 8.00 | 16.63 |
| 24 | OMPA | 12.50 | 11.00 | 1.00 | 22.00 | 3.00 | 4.00 | 16.50 |
| 25 | Propane | 7.50 | 42.00 | 4.00 | 142.00 | 5.00 | 9.00 | 16.50 |
| 26 | Diethylene glycol | 9.38 | 30.00 | 3.00 | 94.00 | 4.00 | 7.00 | 16.38 |
| 27 | Boron trifluoride * | 12.38 | 11.00 | 1.00 | 28.00 | 3.00 | 4.00 | 16.38 |
| 28 | Ammonium nitrate, no organic coating T3 | 6.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 16.13 |
| 29 | Ammonium nitrate, with organic coating | 6.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 16.13 |
| 30 | Dibasic sodium phosphate | 9.00 | 22.00 | 2.00 | 125.00 | 5.00 | 7.00 | 16.00 |
| 31 | Silica #(T3) | 8.00 | 30.00 | 3.00 | 131.00 | 5.00 | 8.00 | 16.00 |
| 32 | Sodium bicarbonate #(T3) | 8.00 | 30.00 | 3.00 | 138.00 | 5.00 | 8.00 | 16.00 |
| 33 | Sodium chloride #(T3) | 8.00 | 38.00 | 3.00 | 175.00 | 5.00 | 8.00 | 16.00 |
| 34 | Sodium dodecyl sulfate #(T3) | 9.00 | 27.00 | 2.00 | 104.00 | 5.00 | 7.00 | 16.00 |
| 35 | Zinc | 9.00 | 31.00 | 3.00 | 90.00 | 4.00 | 7.00 | 16.00 |
| 36 | Selenium hexafluoride | 15.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 16.00 |
| 37 | Chloroacetyl chloride E3 | 9.00 | 25.00 | 2.00 | 179.00 | 5.00 | 7.00 | 16.00 |
| 38 | Dibutyl phthalate *#(T3) | 9.88 | 27.00 | 2.00 | 88.00 | 4.00 | 6.00 | 15.88 |
| 39 | Ethyl alcohol #(T3) | 5.63 | 51.00 | 5.00 | 321.00 | 5.00 | 10.00 | 15.63 |
| 40 | Acetylene *T3 | 5.63 | 93.00 | 5.00 | 253.00 | 5.00 | 10.00 | 15.63 |
| 41 | Mercury | 11.50 | 14.00 | 1.00 | 24.00 | 3.00 | 4.00 | 15.50 |
| 42 | Bromine | 11.50 | 12.00 | 1.00 | 50.00 | 3.00 | 4.00 | 15.50 |
| 43 | Chlorine dioxide | 11.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 15.50 |
| 44 | Oleum-E3* | 11.50 | 9.00 | 0.00 | 81.00 | 4.00 | 4.00 | 15.50 |
| 45 | Calcium Hydroxide #(T3) | 7.38 | 38.00 | 3.00 | 144.00 | 5.00 | 8.00 | 15.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 46 | Methyl bromide | 74-83-9 | 740.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 47 | Potassium Hydroxide #(T3) | 1310-58-3 | 65.36 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 48 | Silver nitrate #(T3) | 7761-88-8 | 2.17 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 49 | Iron oxide #(T3) | 1309-37-1 | 76.55 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 50 | Phosphoryl Trichloride | 10025-87-3 | 0.85 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 51 | Ethanolamine #(T3) | 141-43-5 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 52 | Formic acid #(T3) | 64-18-6 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 53 | Phosphorus trichloride | 7719-12-2 | 5.60 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 54 | Chlorpyrifos #(T3) | 2921-88-2 | 5.23 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 55 | Magnesium Oxide #(T3) | 1309-48-4 | 303.35 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 56 | Sodium cyanide #(T3) | 143-33-9 | 19.96 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 57 | Sodium hydroxide #(E3) | 1310-73-2 | 30.56 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 58 | Carbendazim | 10605-21-7 | 3.25 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 59 | Cobalt dichloride #(T3) | 7646-79-9 | 51.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 60 | Cyanogen Chloride | 460-19-5 | 10.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 61 | Iodine #(E3) | 7553-56-2 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 62 | Nitrogen dioxide | 10102-44-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 63 | Fluorotrichloromethane #(T3) | 75-69-4 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 64 | Dichlorvos | 62-73-7 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 65 | Tetrafluoroboric acid #(T3) | 16872-11-0 | 11.14 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 66 | Sodium Nitrate #(T3) | 7631-99-4 | 28.77 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 67 | Sulfur tetrafluoride-T3* | 7783-60-0 | 2.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 68 | Tungsten hexafluoride-T3* | 7783-82-6 | 32.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 69 | Hexafluoroacetone E3 | 684-16-2 | 50.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 70 | Silicon tetrafluoride-T3* | 7783-61-1 | 100.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 71 | Benzene | 71-43-2 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 72 | Ethyl acetate #(T3) | 141-78-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 73 | Methyl alcohol | 67-56-1 | 7200.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 74 | Toluene | 108-88-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 75 | Ethylene oxide | 75-21-8 | 200.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 76 | Toluene-2,4-diisocyanate | 584-84-9 | 0.51 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 77 | Xylenes #(T3) | 95-47-6 | 900.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 78 | Carbon monoxide/Syngas | 1333-74-0 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 79 | Cypermethrin #(I as in pyrethrum) | 52315-07-8 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 80 | Hydrogen sulfide | 7783-06-4 | 50.00 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 81 | Molybdophosphoric acid | 51429-74-4 | 37.05 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 82 | Fluorine | 7782-41-4 | 13.00 | 3.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 5.00 |
| 83 | Malathion * #(T3) | 121-75-5 | 18.50 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 84 | Butane T3 | 106-97-8 | 19000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 85 | Ammonium Chloride | 12125-02-9 | 228.00 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 86 | Potassium dichromate #(T3) | 7778-50-9 | 3.32 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 87 | Barium nitrate *T3 | 10022-31-8 | 7.02 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 88 | Imidacloprid #(E3) | 105827-78-9 | 2.03 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 89 | Potassium nitrate #(T3) | 7757-79-1 | 120.91 | 2.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 90 | Phenyl etherbiphenyl mixture (vapor) #(I) | 8004-13-5 | 10.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 5.00 |
| 91 | Nitrosyl chloride-T3* | 2696-92-6 | 2.50 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 92 | Aniline | 62-53-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 46 | Methyl bromide | 11.38 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 15.38 |
| 47 | Potassium Hydroxide #(T3) | 8.38 | 24.00 | 2.00 | 107.00 | 5.00 | 7.00 | 15.38 |
| 48 | Silver nitrate #(T3) | 9.38 | 22.00 | 2.00 | 80.00 | 4.00 | 6.00 | 15.38 |
| 49 | Iron oxide #(T3) | 8.38 | 27.00 | 2.00 | 141.00 | 5.00 | 7.00 | 15.38 |
| 50 | Phosphoryl Trichloride | 11.25 | 14.00 | 1.00 | 50.00 | 3.00 | 4.00 | 15.25 |
| 51 | Ethanolamine #(T3) | 9.25 | 20.00 | 2.00 | 72.00 | 4.00 | 6.00 | 15.25 |
| 52 | Formic acid #(T3) | 9.25 | 26.00 | 2.00 | 84.00 | 4.00 | 6.00 | 15.25 |
| 53 | Phosphorus trichloride | 10.25 | 11.00 | 1.00 | 57.00 | 4.00 | 5.00 | 15.25 |
| 54 | Chlorpyrifos #(T3) | 10.00 | 17.00 | 1.00 | 71.00 | 4.00 | 5.00 | 15.00 |
| 55 | Magnesium Oxide #(T3) | 8.00 | 28.00 | 2.00 | 134.00 | 5.00 | 7.00 | 15.00 |
| 56 | Sodium cyanide #(T3) | 9.00 | 21.00 | 2.00 | 52.00 | 4.00 | 6.00 | 15.00 |
| 57 | Sodium hydroxide #(E3) | 5.00 | 64.00 | 5.00 | 477.00 | 5.00 | 10.00 | 15.00 |
| 58 | Carbendazim | 10.00 | 16.00 | 1.00 | 62.00 | 4.00 | 5.00 | 15.00 |
| 59 | Cobalt dichloride #(T3) | 9.00 | 22.00 | 2.00 | 90.00 | 4.00 | 6.00 | 15.00 |
| 60 | Cyanogen Chloride | 14.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 15.00 |
| 61 | Iodine #(E3) | 10.00 | 19.00 | 1.00 | 80.00 | 4.00 | 5.00 | 15.00 |
| 62 | Nitrogen dioxide | 13.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 15.00 |
| 63 | Fluorotrichloromethane #(T3) | 11.00 | 12.00 | 1.00 | 18.00 | 3.00 | 4.00 | 15.00 |
| 64 | Dichlorvos | 9.88 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 14.88 |
| 65 | Tetrafluoroboric acid #(T3) | 9.88 | 17.00 | 1.00 | 60.00 | 4.00 | 5.00 | 14.88 |
| 66 | Sodium Nitrate #(T3) | 7.75 | 23.00 | 2.00 | 124.00 | 5.00 | 7.00 | 14.75 |
| 67 | Sulfur tetrafluoride-T3* | 12.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 14.75 |
| 68 | Tungsten hexafluoride-T3* | 11.75 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 14.75 |
| 69 | Hexafluoroacetone E3 | 11.75 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 14.75 |
| 70 | Silicon tetrafluoride-T3* | 11.75 | 9.00 | 0.00 | 15.00 | 3.00 | 3.00 | 14.75 |
| 71 | Benzene | 5.63 | 42.00 | 4.00 | 291.00 | 5.00 | 9.00 | 14.63 |
| 72 | Ethyl acetate #(T3) | 6.63 | 30.00 | 3.00 | 139.00 | 5.00 | 8.00 | 14.63 |
| 73 | Methyl alcohol | 5.63 | 47.00 | 4.00 | 268.00 | 5.00 | 9.00 | 14.63 |
| 74 | Toluene | 5.63 | 40.00 | 4.00 | 237.00 | 5.00 | 9.00 | 14.63 |
| 75 | Ethylene oxide | 7.63 | 32.00 | 3.00 | 84.00 | 4.00 | 7.00 | 14.63 |
| 76 | Toluene-2,4-diisocyanate | 10.63 | 12.00 | 1.00 | 20.00 | 3.00 | 4.00 | 14.63 |
| 77 | Xylenes #(T3) | 7.63 | 32.00 | 3.00 | 76.00 | 4.00 | 7.00 | 14.63 |
| 78 | Carbon monoxide/Syngas | 7.50 | 31.00 | 3.00 | 55.00 | 4.00 | 7.00 | 14.50 |
| 79 | Cypermethrin #(I as in pyrethrum) | 9.50 | 15.00 | 1.00 | 89.00 | 4.00 | 5.00 | 14.50 |
| 80 | Hydrogen sulfide | 10.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 14.50 |
| 81 | Molybdophosphoric acid | 10.50 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 14.50 |
| 82 | Fluorine | 10.50 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 14.50 |
| 83 | Malathion * #(T3) | 10.50 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 14.50 |
| 84 | Butane T3 | 7.50 | 36.00 | 3.00 | 97.00 | 4.00 | 7.00 | 14.50 |
| 85 | Ammonium Chloride | 7.38 | 25.00 | 2.00 | 141.00 | 5.00 | 7.00 | 14.38 |
| 86 | Potassium dichromate #(T3) | 9.38 | 17.00 | 1.00 | 69.00 | 4.00 | 5.00 | 14.38 |
| 87 | Barium nitrate *T3 | 9.38 | 15.00 | 1.00 | 72.00 | 4.00 | 5.00 | 14.38 |
| 88 | Imidacloprid #(E3) | 9.38 | 10.00 | 1.00 | 75.00 | 4.00 | 5.00 | 14.38 |
| 89 | Potassium nitrate #(T3) | 7.38 | 24.00 | 2.00 | 117.00 | 5.00 | 7.00 | 14.38 |
| 90 | Phenyl etherbiphenyl mixture (vapor) #(I) | 13.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 14.38 |
| 91 | Nitrosyl chloride-T3* | 13.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 14.38 |
| 92 | Aniline | 9.25 | 16.00 | 1.00 | 64.00 | 4.00 | 5.00 | 14.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 93 | 1,3-Butadiene | 106-99-0 | 22000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 94 | Cyclohexanone #(T3) | 108-94-1 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 95 | Boron trichloride T3 | 10294-34-5 | 2.50 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 96 | Chlorine trifluoride E3 | 7790-91-2 | 10.00 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 97 | Arsenic Trioxide | 1327-53-3 | 1.12 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 98 | Potassium ferrocyanide #(T3) | 13943-58-3 | 3.42 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 99 | Cadmium | 7440-43-9 | 1.96 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 100 | Copper oxychloride #(E3) | 1332-40-7 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 101 | Dimethoate #(T3) | 60-51-5 | 3.19 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 102 | Endosulfan | 115-29-7 | 2.10 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 103 | Red mercuric oxide | 21908-53-2 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 104 | Sodium fluoride #(T3) | 7681-49-4 | 43.76 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 105 | Dichlorodifluoromethane #(T3) | 75-71-8 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 106 | Sulfuryl fluoride | 2699-79-8 | 64.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 107 | Thiram * #(T3) | 137-26-8 | 10.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 108 | Acetylene tetrabromide #(T3) | 79-27-6 | 8.00 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 109 | Castor oil #(T3) | 8001-79-4 | 13.12 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 110 | Dimethylphthalate * #(T3) | 131-11-3 | 62.96 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 111 | o-Anisidine * #(T3) | 90-04-0 | 9.93 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 112 | Tributyl phosphate #(T3) | 126-73-8 | 30.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 113 | MDEA-R* (N-Methyldiethanolamine | 105-59-9 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 114 | Magnesium (powder)-T3* | 7439-95-4 | 251.49 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 115 | Sodium chlorate | 7775-09-9 | 17.22 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 116 | Benomyl | 17804-35-2 | 0.84 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 117 | Paracetamol #(E3-phenol) | 103-90-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 118 | Phenol #(E3) | 108-95-2 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 119 | Naphthalene #(T3) | 91-20-3 | 250.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 120 | Sodium sulfide #(T3) | 1313-82-2 | 23.51 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 121 | Sulfur trioxide | 11/9/7446 | 160.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 122 | Germanium tetrafluoride T3 | 7783-58-6 | 82.25 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 123 | Hydrogen iodide T3 | 10034-85-2 | 120.00 | 2.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 5.00 |
| 124 | Parathion * | 56-38-2 | 0.17 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 125 | Acetone | 67-64-1 | 5700.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 126 | Dimethyl sulfate | 77-78-1 | 1.60 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 127 | Ethylene dichloride #(E3) | 107-06-2 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 128 | Furfural #(E3) | 98-01-1 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 129 | n-Butyl acetate #(E3) | 123-86-4 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 130 | n-Butyl alcohol #(T3) | 71-36-3 | 1400.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 131 | Carbon tetrachloride | 56-23-5 | 520.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 132 | Chloroform | 67-66-3 | 3200.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 133 | Deltamethrin #(I as in pyrethrum) | 52918-63-5 | 293.87 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 134 | Phosphamidon #(T3) | 13171-21-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 135 | Bromoform #(T3) | 75-25-2 | 850.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 136 | Dimethylamine | 124-40-3 | 250.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 137 | Ethylamine | 75-04-7 | 270.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 138 | Ethylene dibromide | 106-93-4 | 46.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 139 | Methylamine | 74-89-5 | 350.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 140 | Phosdrin * #(T3) (Mevinphos) | 7786-34-7 | 0.44 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 93 | 1,3-Butadiene | 6.25 | 31.00 | 3.00 | 111.00 | 5.00 | 8.00 | 14.25 |
| 94 | Cyclohexanone #(T3) | 8.25 | 25.00 | 2.00 | 72.00 | 4.00 | 6.00 | 14.25 |
| 95 | Boron trichloride T3 | 10.25 | 16.00 | 1.00 | 13.00 | 3.00 | 4.00 | 14.25 |
| 96 | Chlorine trifluoride E3 | 12.13 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 14.13 |
| 97 | Arsenic Trioxide | 10.00 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 14.00 |
| 98 | Potassium ferrocyanide #(T3) | 10.00 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 14.00 |
| 99 | Cadmium | 10.00 | 19.00 | 1.00 | 37.00 | 3.00 | 4.00 | 14.00 |
| 100 | Copper oxychloride #(E3) | 9.00 | 21.00 | 2.00 | 41.00 | 3.00 | 5.00 | 14.00 |
| 101 | Dimethoate #(T3) | 10.00 | 11.00 | 1.00 | 39.00 | 3.00 | 4.00 | 14.00 |
| 102 | Endosulfan | 10.00 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 14.00 |
| 103 | Red mercuric oxide | 10.00 | 11.00 | 1.00 | 26.00 | 3.00 | 4.00 | 14.00 |
| 104 | Sodium fluoride #(T3) | 9.00 | 16.00 | 1.00 | 85.00 | 4.00 | 5.00 | 14.00 |
| 105 | Dichlorodifluoromethane #(T3) | 10.00 | 14.00 | 1.00 | 25.00 | 3.00 | 4.00 | 14.00 |
| 106 | Sulfuryl fluoride | 13.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 14.00 |
| 107 | Thiram * #(T3) | 9.00 | 17.00 | 1.00 | 72.00 | 4.00 | 5.00 | 14.00 |
| 108 | Acetylene tetrabromide #(T3) | 10.88 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 13.88 |
| 109 | Castor oil #(T3) | 9.88 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 13.88 |
| 110 | Dimethylphthalate * #(T3) | 9.88 | 16.00 | 1.00 | 36.00 | 3.00 | 4.00 | 13.88 |
| 111 | o-Anisidine * #(T3) | 10.88 | 5.00 | 0.00 | 24.00 | 3.00 | 3.00 | 13.88 |
| 112 | Tributyl phosphate #(T3) | 9.88 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 13.88 |
| 113 | MDEA-R* (N-Methyldiethanolamine | 8.88 | 24.00 | 2.00 | 44.00 | 3.00 | 5.00 | 13.88 |
| 114 | Magnesium (powder)-T3* | 4.88 | 42.00 | 4.00 | 423.00 | 5.00 | 9.00 | 13.88 |
| 115 | Sodium chlorate | 7.75 | 20.00 | 2.00 | 59.00 | 4.00 | 6.00 | 13.75 |
| 116 | Benomyl | 9.75 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 13.75 |
| 117 | Paracetamol #(E3-phenol) | 6.75 | 23.00 | 2.00 | 106.00 | 5.00 | 7.00 | 13.75 |
| 118 | Phenol #(E3) | 6.75 | 26.00 | 2.00 | 129.00 | 5.00 | 7.00 | 13.75 |
| 119 | Naphthalene #(T3) | 6.75 | 25.00 | 2.00 | 103.00 | 5.00 | 7.00 | 13.75 |
| 120 | Sodium sulfide #(T3) | 7.75 | 21.00 | 2.00 | 86.00 | 4.00 | 6.00 | 13.75 |
| 121 | Sulfur trioxide | 10.75 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 13.75 |
| 122 | Germanium tetrafluoride T3 | 11.75 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 13.75 |
| 123 | Hydrogen iodide T3 | 10.75 | 2.00 | 0.00 | 30.00 | 3.00 | 3.00 | 13.75 |
| 124 | Parathion * | 10.63 | 3.00 | 0.00 | 11.00 | 3.00 | 3.00 | 13.63 |
| 125 | Acetone | 5.63 | 30.00 | 3.00 | 146.00 | 5.00 | 8.00 | 13.63 |
| 126 | Dimethyl sulfate | 9.63 | 12.00 | 1.00 | 39.00 | 3.00 | 4.00 | 13.63 |
| 127 | Ethylene dichloride #(E3) | 7.63 | 28.00 | 2.00 | 70.00 | 4.00 | 6.00 | 13.63 |
| 128 | Furfural #(E3) | 8.63 | 19.00 | 1.00 | 66.00 | 4.00 | 5.00 | 13.63 |
| 129 | n-Butyl acetate #(E3) | 5.63 | 30.00 | 3.00 | 124.00 | 5.00 | 8.00 | 13.63 |
| 130 | n-Butyl alcohol #(T3) | 6.63 | 26.00 | 2.00 | 106.00 | 5.00 | 7.00 | 13.63 |
| 131 | Carbon tetrachloride | 9.50 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 13.50 |
| 132 | Chloroform | 7.50 | 20.00 | 2.00 | 81.00 | 4.00 | 6.00 | 13.50 |
| 133 | Deltamethrin #(I as in pyrethrum) | 9.50 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 13.50 |
| 134 | Phosphamidon #(T3) | 12.50 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 13.50 |
| 135 | Bromoform #(T3) | 9.50 | 10.00 | 1.00 | 24.00 | 3.00 | 4.00 | 13.50 |
| 136 | Dimethylamine | 9.50 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 13.50 |
| 137 | Ethylamine | 9.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 13.50 |
| 138 | Ethylene dibromide | 10.50 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 13.50 |
| 139 | Methylamine | 9.50 | 14.00 | 1.00 | 46.00 | 3.00 | 4.00 | 13.50 |
| 140 | Phosdrin * #(T3) (Mevinphos) | 12.50 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 13.50 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 141 | TEDP * #(T3) | 3689-24-5 | 0.76 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 142 | Aluminum (powder) *T3 | 7429-90-5 | 226.54 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 143 | Ammonium persulfate *T3 | 7727-54-0 | 10.71 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 144 | Atrazine *T3 | 1912-24-9 | 1.50 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 145 | Cobalt (II) nitrate | 10141-05-6 | 12.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 146 | Potassium permanganate #(T3) | 7722-64-7 | 19.34 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 147 | Oxalic acid * #(T3) | 144-62-7 | 135.77 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 148 | Carbonyl fluoride T3 | 353-50-4 | 20.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 5.00 |
| 149 | Arsine | 7784-42-1 | 0.50 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 150 | Dimethylformamide | 68-12-2 | 530.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 151 | Phosphine | 7803-51-2 | 3.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 152 | Ethylenediamine | 107-15-3 | 20.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 153 | N,N-Dimethylaniline #(T3) | 121-69-7 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 154 | o-Toluidine #(T3) | 95-53-4 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 155 | Chlorosulfonic acid E3 | 7790-94-5 | 6.29 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 156 | Boron tribromide T3 | 10294-33-4 | 5.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 157 | Thionyl chloride-E3* | 7719-09-715 | 10.00 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 158 | Titanium tetrachloride-E3* | 7550-45-0 | 12.89 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 159 | Dichlorosilane T3 | 4109-96-0 | 75.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 160 | Ethylene T3 | 74-85-1 | 15000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 161 | Periodic acid | 10450-60-9 | 0.54 | 5.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 1.00 |
| 162 | p-Phenylene diamine * #(T3) | 106-50-3 | 5.70 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 1.00 |
| 163 | Lead Oxide (#T3) | 1309-60-0 | 10.22 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 164 | Mercuric chloride #(T3 of Hg) | 7487-94-7 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 165 | Potassium cyanide #(T3) | 151-50-8 | 22.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 166 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 7778-53-2 | 89.84 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 167 | Arsenic *T3 | 7440-38-2 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 168 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 57837-19-1 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 169 | Metribuzin #(T3 as diazo compound) | 21087-64-9 | 10.98 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 170 | Potassium fluoride #(T3) | 7789-23-3 | 210.38 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 171 | 2 Aminopyridine #(I) | 504-29-0 | 5.00 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 172 | 2,4-D * #(T3) | 94-75-7 | 11.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 173 | Carbaryl * #(T3) | 63-25-2 | 12.15 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 174 | Collodion #(T3) | 9004-70-0 | 12.23 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 175 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 528-29-0; 99-65-0; 100-25-4 | 7.27 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 176 | p-Anisidine * #(T3) | 104-94-9 | 9.93 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 177 | Pentachlorophenol * #(T3) | 87-86-5 | 0.23 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 178 | Warfarin * #(T3) | 81-81-2 | 1.60 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 179 | Dinitrogen tetroxide T3 | 10544-72-6 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 180 | Nitrogen trioxide-T3* | 10544-73-7 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 181 | Diphenyl Ether #(T3) | 101-84-8 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 182 | Fenvalerate | 51630-58-1 | 29.11 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 183 | Methyl iodide #(E3) | 74-88-4 | 125.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 184 | Methylene chloride | 75-09-2 | 6900.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 141 | TEDP * #(T3) | 12.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 13.50 |
| 142 | Aluminum (powder) *T3 | 5.50 | 39.00 | 3.00 | 520.00 | 5.00 | 8.00 | 13.50 |
| 143 | Ammonium persulfate *T3 | 8.38 | 12.00 | 1.00 | 57.00 | 4.00 | 5.00 | 13.38 |
| 144 | Atrazine *T3 | 9.38 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 13.38 |
| 145 | Cobalt (II) nitrate | 8.38 | 18.00 | 1.00 | 70.00 | 4.00 | 5.00 | 13.38 |
| 146 | Potassium permanganate #(T3) | 8.38 | 16.00 | 1.00 | 57.00 | 4.00 | 5.00 | 13.38 |
| 147 | Oxalic acid * #(T3) | 7.38 | 16.00 | 1.00 | 106.00 | 5.00 | 6.00 | 13.38 |
| 148 | Carbonyl fluoride T3 | 12.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 13.38 |
| 149 | Arsine | 11.25 | 8.00 | 0.00 | 10.00 | 2.00 | 2.00 | 13.25 |
| 150 | Dimethylformamide | 8.25 | 19.00 | 1.00 | 64.00 | 4.00 | 5.00 | 13.25 |
| 151 | Phosphine | 10.25 | 9.00 | 0.00 | 13.00 | 3.00 | 3.00 | 13.25 |
| 152 | Ethylenediamine | 9.25 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 13.25 |
| 153 | N,N-Dimethylaniline #(T3) | 9.25 | 11.00 | 1.00 | 41.00 | 3.00 | 4.00 | 13.25 |
| 154 | o-Toluidine #(T3) | 9.25 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 13.25 |
| 155 | Chlorosulfonic acid E3 | 10.25 | 6.00 | 0.00 | 38.00 | 3.00 | 3.00 | 13.25 |
| 156 | Boron tribromide T3 | 10.25 | 3.00 | 0.00 | 12.00 | 3.00 | 3.00 | 13.25 |
| 157 | Thionyl chloride-E3* | 10.25 | | 0.00 | 23.00 | 3.00 | 3.00 | 13.25 |
| 158 | Titanium tetrachloride-E3* | 9.25 | 15.00 | 1.00 | 25.00 | 3.00 | 4.00 | 13.25 |
| 159 | Dichlorosilane T3 | 9.25 | 12.00 | 1.00 | 12.00 | 3.00 | 4.00 | 13.25 |
| 160 | Ethylene T3 | 6.25 | 20.00 | 2.00 | 173.00 | 5.00 | 7.00 | 13.25 |
| 161 | Periodic acid | 9.13 | 10.00 | 1.00 | 21.00 | 3.00 | 4.00 | 13.13 |
| 162 | p-Phenylene diamine * #(T3) | 8.13 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 13.13 |
| 163 | Lead Oxide (#T3) | 9.00 | 10.00 | 1.00 | 20.00 | 3.00 | 4.00 | 13.00 |
| 164 | Mercuric chloride #(T3 of Hg) | 10.00 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 13.00 |
| 165 | Potassium cyanide #(T3) | 9.00 | 14.00 | 1.00 | 23.00 | 3.00 | 4.00 | 13.00 |
| 166 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 9.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 13.00 |
| 167 | Arsenic *T3 | 10.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 13.00 |
| 168 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 10.00 | 8.00 | 0.00 | 25.00 | 3.00 | 3.00 | 13.00 |
| 169 | Metribuzin #(T3 as diazo compound) | 9.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 13.00 |
| 170 | Potassium fluoride #(T3) | 8.00 | 14.00 | 1.00 | 82.00 | 4.00 | 5.00 | 13.00 |
| 171 | 2 Aminopyridine #(I) | 10.00 | 6.00 | 0.00 | 20.00 | 3.00 | 3.00 | 13.00 |
| 172 | 2,4-D * #(T3) | 9.00 | 15.00 | 1.00 | 32.00 | 3.00 | 4.00 | 13.00 |
| 173 | Carbaryl * #(T3) | 9.00 | 10.00 | 1.00 | 25.00 | 3.00 | 4.00 | 13.00 |
| 174 | Collodion #(T3) | 8.00 | 22.00 | 2.00 | 40.00 | 3.00 | 5.00 | 13.00 |
| 175 | Dinitrobenzene* (o, m, p isomers) * #(T3) | 10.00 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 13.00 |
| 176 | p-Anisidine * #(T3) | 10.00 | 5.00 | 0.00 | 19.00 | 3.00 | 3.00 | 13.00 |
| 177 | Pentachlorophenol * #(T3) | 11.00 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 13.00 |
| 178 | Warfarin * #(T3) | 10.00 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 13.00 |
| 179 | Dinitrogen tetroxide T3 | 13.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.00 |
| 180 | Nitrogen trioxide-T3* | 12.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 13.00 |
| 181 | Diphenyl Ether #(T3) | 9.88 | 5.00 | 0.00 | 23.00 | 3.00 | 3.00 | 12.88 |
| 182 | Fenvalerate | 9.88 | 6.00 | 0.00 | 48.00 | 3.00 | 3.00 | 12.88 |
| 183 | Methyl iodide #(E3) | 8.88 | 10.00 | 1.00 | 40.00 | 3.00 | 4.00 | 12.88 |
| 184 | Methylene chloride | 6.88 | 21.00 | 2.00 | 83.00 | 4.00 | 6.00 | 12.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 185 | Phosphotungstic acid #(T3 of tungstic acid) | 12067-99-1 | 13.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 186 | Polyphosphoric acid | 68333-79-9 | 14.47 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 187 | TEPP * #(T3) | 107-49-3 | 0.42 | 5.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 188 | Dicofol #(T3) | 115-32-2 | 0.50 | 5.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 189 | Phosphorus | 7723-14-0 | 3.16 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 190 | Methylene bisphenyl isocyanate * #(E3) | 101-68-8 | 2.40 | 4.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 1.00 |
| 191 | Aluminum chloride, anydrous *T3 | 7446-70-0 | 91.68 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 192 | Isobutyl alcohol #(T3) | 78-83-1 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 193 | Isopropyl alcohol #(T3) | 67-63-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 194 | Nitrobenzene #(T3) | 98-95-3 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 195 | Cyclohexane #(T3) | 110-82-7 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 196 | Acetic anhydride #(T3) | 108-24-7 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 197 | Benzyl chloride #(E3) | 100-44-7 | 25.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 198 | Chlorobenzene | 108-90-7 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 199 | Ethyl benzene | 100-41-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 200 | Furfuryl alcohol #(T3) | 98-00-0 | 75.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 201 | Hexone #(T3) | 108-10-1 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 202 | Isoamyl alcohol (primary and secondary) #(T3) | 123-51-3 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 203 | Isobutyl acetate #(T3) | 110-19-0 | 1300.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 204 | Methyl chloroformate-T3* | 79-22-1 | 4.00 | 4.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 205 | Demeton * #(T3) (Systox) | 8065-48-3 | 0.95 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 206 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 100.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 207 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 76-13-1 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 208 | Hydrogen selenide | 7783-07-5 | 2.20 | 4.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 5.00 |
| 209 | Sulfur pentafluoride #(T3) | 5714-22-7 | 1.00 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 210 | Tetrachloroethylene | 127-18-4 | 1200.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 211 | Trithion | 786-19-6 | 0.49 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 212 | Trimethylamine-E3[4] | 75-50-3 | 500.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 213 | Ethane T3 | 74-84-0 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 214 | Acephate | 30560-19-1 | 5.00 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 215 | Lead nitrate | 10099-74-8 | 11.07 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 216 | Azinphosmethyl * #(T3) | 86-50-0 | 0.77 | 5.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 217 | Bismuth *T3 of BiOCl | 7440-69-9 | 47.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 218 | Mercuric nitrate | 10045-94-0 | 1.07 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 219 | Methyl parathion #(T3) | 298-00-0 | 1.39 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 220 | 2,6-di-tert-butyl-p-cresol *T3 | 128-37-0 | 44.45 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 221 | 2-chloroacetophenone *IDLH | 532-27-4 | 2.38 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 222 | Acrylonitrile | 107-13-1 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 223 | Hydroquinone * #(T3) | 123-31-9 | 11.10 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 224 | Styrene | 100-42-5 | 1100.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 225 | 2-Diethylaminoethanol #(I) | 100-37-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 226 | Bromoxynil #(T3-as naptha solution only) | 1689-84-5 | 80.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 227 | Tetramethylethylenediamine #(T#) | 110-18-9 | 125.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 228 | 4-chlorobutyronitrile (as CN) | 628-20-6 | 25.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| ~~185~~ | ~~Phosphotungstic acid #(T3 of tungstic acid)~~ | 9.88 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 12.88 |
| 186 | Polyphosphoric acid | 9.88 | 9.00 | 0.00 | 26.00 | 3.00 | 3.00 | 12.88 |
| 187 | TEPP * #(T3) | 11.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 12.88 |
| 188 | Dicofol #(T3) | 9.75 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 12.75 |
| 189 | Phosphorus | 8.75 | 11.00 | 1.00 | 49.00 | 3.00 | 4.00 | 12.75 |
| 190 | Methylene bisphenyl isocyanate * #(E3) | 8.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 12.75 |
| 191 | Aluminum chloride, anydrous *T3 | 7.75 | 10.00 | 1.00 | 99.00 | 4.00 | 5.00 | 12.75 |
| 192 | Isobutyl alcohol #(T3) | 6.63 | 27.00 | 2.00 | 80.00 | 4.00 | 6.00 | 12.63 |
| 193 | Isopropyl alcohol #(T3) | 6.63 | 24.00 | 2.00 | 90.00 | 4.00 | 6.00 | 12.63 |
| 194 | Nitrobenzene #(T3) | 7.63 | 12.00 | 1.00 | 55.00 | 4.00 | 5.00 | 12.63 |
| 195 | Cyclohexane #(T3) | 6.63 | 26.00 | 2.00 | 75.00 | 4.00 | 6.00 | 12.63 |
| 196 | Acetic anhydride #(T3) | 7.63 | 19.00 | 1.00 | 55.00 | 4.00 | 5.00 | 12.63 |
| 197 | Benzyl chloride #(E3) | 8.63 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 12.63 |
| 198 | Chlorobenzene | 7.63 | 13.00 | 1.00 | 53.00 | 4.00 | 5.00 | 12.63 |
| 199 | Ethyl benzene | 6.63 | 21.00 | 2.00 | 51.00 | 4.00 | 6.00 | 12.63 |
| 200 | Furfuryl alcohol #(T3) | 8.63 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 12.63 |
| 201 | Hexone #(T3) | 7.63 | 17.00 | 1.00 | 52.00 | 4.00 | 5.00 | 12.63 |
| 202 | Isoamyl alcohol (primary and secondary) #(T3) | 7.63 | 18.00 | 1.00 | 60.00 | 4.00 | 5.00 | 12.63 |
| 203 | Isobutyl acetate #(T3) | 6.63 | 21.00 | 2.00 | 56.00 | 4.00 | 6.00 | 12.63 |
| 204 | Methyl chloroformate-T3* | 9.63 | 2.00 | 0.00 | 23.00 | 3.00 | 3.00 | 12.63 |
| 205 | Demeton * #(T3) (Systox) | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 |
| 206 | 1,1,2,2-Tetrachloroethane #(T3) | 10.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 12.50 |
| 207 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 8.50 | 12.00 | 1.00 | 15.00 | 3.00 | 4.00 | 12.50 |
| 208 | Hydrogen selenide | 11.50 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 12.50 |
| 209 | Sulfur pentafluoride #(T3) | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 |
| 210 | Tetrachloroethylene | 8.50 | 17.00 | 1.00 | 43.00 | 3.00 | 4.00 | 12.50 |
| 211 | Trithion | 12.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 12.50 |
| 212 | Trimethylamine-E3[4] | 9.50 | 8.00 | 0.00 | 41.00 | 3.00 | 3.00 | 12.50 |
| 213 | Ethane T3 | 7.50 | 28.00 | 2.00 | 33.00 | 3.00 | 5.00 | 12.50 |
| 214 | Acephate | 9.38 | 9.00 | 0.00 | 49.00 | 3.00 | 3.00 | 12.38 |
| 215 | Lead nitrate | 8.38 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 12.38 |
| 216 | Azinphosmethyl * #(T3) | 10.38 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 12.38 |
| 217 | Bismuth *T3 of BiOCl | 8.38 | 15.00 | 1.00 | 26.00 | 3.00 | 4.00 | 12.38 |
| 218 | Mercuric nitrate | 9.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 12.38 |
| 219 | Methyl parathion #(T3) | 9.38 | 7.00 | 0.00 | 25.00 | 3.00 | 3.00 | 12.38 |
| 220 | 2,6-di-tert-butyl-p-cresol *T3 | 8.38 | 13.00 | 1.00 | 48.00 | 3.00 | 4.00 | 12.38 |
| 221 | 2-chloroacetophenone *IDLH | 9.38 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 12.38 |
| 222 | Acrylonitrile | 7.38 | 16.00 | 1.00 | 53.00 | 4.00 | 5.00 | 12.38 |
| 223 | Hydroquinone * #(T3) | 8.38 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 12.38 |
| 224 | Styrene | 5.38 | 28.00 | 2.00 | 104.00 | 5.00 | 7.00 | 12.38 |
| 225 | 2-Diethylaminoethanol #(I) | 9.25 | 0.00 | 0.00 | 23.00 | 3.00 | 3.00 | 12.25 |
| 226 | Bromoxynil #(T3-as naptha solution only) | 9.25 | 5.00 | 0.00 | 14.00 | 3.00 | 3.00 | 12.25 |
| 227 | Tetramethylethylenediamine #(T#) | 8.25 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 12.25 |
| 228 | 4-chlorobutyronitrile (as CN) | 9.25 | 4.00 | 0.00 | 11.00 | 3.00 | 3.00 | 12.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 229 | Cyclohexanol #(T3) | 108-93-0 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 230 | Dichloroethyl ether #(T3) | 111-44-4 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 231 | Dimethyl acetamide #(T3) | 127-19-5 | 300.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 232 | Ethylene chlorohydrin | 107-07-3 | 12.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 233 | Methyl (n-amyl) ketone #(T3) | 110-43-0 | 800.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 234 | Monomethyl aniline #(T3) | 100-61-8 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 235 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 88-72-2; 99-08-1; 99-99-0 | 60.00 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 236 | Perchloromethyl mercaptan | 594-42-3 | 0.90 | 5.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 237 | Phenylhydrazine #(T3) | 100-63-0 | 15.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 238 | Methylphenyldichlorosilane-T3² | 149-74-6 | 2.56 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 239 | Sulfuryl chloride-T3* | 7791-25-5 | 15.00 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 240 | Chlorine pentafluoride T3 | 13637-63-3 | 60.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 5.00 |
| 241 | Lindane * #(T3) | 58-89-9 | 4.20 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 242 | Methomyl | 16752-77-5 | 30.13 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 243 | Strychnine Sulfate #(T3) | 60-41-3 | 0.29 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 244 | Boron *T3 of B2O3 | 7440-42-8 | 175.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 245 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 69327-76-0 | 20.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 246 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 39515-41-8 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 247 | Methamidophos | 10265-92-6 | 10.39 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 248 | Sodium fluoroacetate #(T3) | 62-74-8 | 0.61 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 249 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 76-11-9 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 250 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 76-12-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 251 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 118-52-5 | 62.06 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 252 | Cumene | 98-82-8 | 730.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 253 | Dichlorotetrafluoroethane #(T3) | 76-14-2 | 15000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 254 | Difethialone (T3 based on warfarin) | 104653-34-1 | 0.67 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 255 | Dinitrocresol * #(T3) | 534-52-1 | 0.62 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 256 | Endrin * #(T3) | 72-20-8 | 0.13 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 257 | EPN * #(T3) | 2104-64-5 | 0.38 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 258 | Thallium sulfate #(T3 of Tl) | 7446-18-6 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 259 | Trifluorobromomethane #(T3) | 75-63-8 | 40000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 260 | Nitrogen mustard hydrochloride-T3* | 55-86-7 | 0.51 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 261 | Iron, pentacarbonyl- T3 | 13463-40-6 | 0.18 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 262 | Acetone cyanohydrin, stabilized *T-3 | 75-86-5 | 15.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 263 | Acetyl Bromide *T3 | 506-96-7 | 20.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 264 | Di-syston #(T3) | 298-04-4 | 6.68 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 265 | Oxydemeton-methyl #(I) | 301-12-2 | 3.97 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 266 | Trichloroethylene | 79-01-6 | 3800.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 267 | 1,1,2-Trichloroethane #(T3) | 79-00-5 | 100.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 229 | Cyclohexanol #(T3) | 8.25 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 12.25 |
| 230 | Dichloroethyl ether #(T3) | 9.25 | 4.00 | 0.00 | 12.00 | 3.00 | 3.00 | 12.25 |
| 231 | Dimethyl acetamide #(T3) | 8.25 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 12.25 |
| 232 | Ethylene chlorohydrin | 9.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 12.25 |
| 233 | Methyl (n-amyl) ketone #(T3) | 8.25 | 11.00 | 1.00 | 20.00 | 3.00 | 4.00 | 12.25 |
| 234 | Monomethyl aniline #(T3) | 9.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 12.25 |
| 235 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 9.25 | 7.00 | 0.00 | 19.00 | 3.00 | 3.00 | 12.25 |
| 236 | Perchloromethyl mercaptan | 11.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 12.25 |
| 237 | Phenylhydrazine #(T3) | 9.25 | 8.00 | 0.00 | 23.00 | 3.00 | 3.00 | 12.25 |
| 238 | Methylphenyldichlorosilane-T3* | 10.25 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 12.25 |
| 239 | Sulfuryl chloride-T3* | 9.25 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 12.25 |
| 240 | Chlorine pentafluoride T3 | 11.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 12.13 |
| 241 | Lindane * #(T3) | 10.00 | 3.00 | 0.00 | 9.00 | 2.00 | 2.00 | 12.00 |
| 242 | Methomyl | 9.00 | 9.00 | 0.00 | 46.00 | 3.00 | 3.00 | 12.00 |
| 243 | Strychnine Sulfate #(T3) | 11.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 12.00 |
| 244 | Boron *T3 of B2O3 | 8.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 12.00 |
| 245 | Buprofezin #(T3 based on limited acute toxicity pesticide) | 9.00 | 5.00 | 0.00 | 27.00 | 3.00 | 3.00 | 12.00 |
| 246 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 9.00 | 3.00 | 0.00 | 19.00 | 3.00 | 3.00 | 12.00 |
| 247 | Methamidophos | 9.00 | 9.00 | 0.00 | 45.00 | 3.00 | 3.00 | 12.00 |
| 248 | Sodium fluoroacetate #(T3) | 11.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 12.00 |
| 249 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 11.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 12.00 |
| 250 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 12.00 |
| 251 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 9.00 | 3.00 | 0.00 | 16.00 | 3.00 | 3.00 | 12.00 |
| 252 | Cumene | 7.00 | 20.00 | 2.00 | 39.00 | 3.00 | 5.00 | 12.00 |
| 253 | Dichlorotetrafluoroethane #(T3) | 10.00 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 12.00 |
| 254 | Difethialone (T3 based on warfarin) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 12.00 |
| 255 | Dinitrocresol * #(T3) | 11.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 12.00 |
| 256 | Endrin * #(T3) | 11.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 12.00 |
| 257 | EPN * #(T3) | 11.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 12.00 |
| 258 | Thallium sulfate #(T3 of Tl) | 10.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 12.00 |
| 259 | Trifluorobromomethane #(T3) | 10.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 12.00 |
| 260 | Nitrogen mustard hydrochloride-T3* | 11.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 12.00 |
| 261 | Iron, pentacarbonyl- T3 | 10.00 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 12.00 |
| 262 | Acetone cyanohydrin, stabilized *T-3 | 8.00 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 12.00 |
| 263 | Acetyl Bromide *T3 | 8.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 12.00 |
| 264 | Di-syston #(T3) | 10.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 11.88 |
| 265 | Oxydemeton-methyl #(I) | 10.88 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 11.88 |
| 266 | Trichloroethylene | 6.88 | 17.00 | 1.00 | 55.00 | 4.00 | 5.00 | 11.88 |
| 267 | 1,1,2-Trichloroethane #(T3) | 9.88 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 11.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 268 | Methyl mercaptan | 74-93-1 | 68.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 269 | Triethanolamine-T3* | 102-71-6 | 81.94 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 270 | Antimony Pentafluoride T3 | 7783-70-2 | 8.46 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 271 | Barium *T3 | 7440-39-3 | 22.31 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 272 | Sodium azide (#T3) | 26628-22-8 | 4.69 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 273 | Camphor (synthetic) * #(T3) | 76-22-2 | 32.11 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 274 | Phosphorus pentachloride * #(T3) | 10026-13-8 | 8.22 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 275 | Quinone #(T3) | 106-51-4 | 22.60 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 276 | Sulfur trioxide-E3* | 7446-11-9 | 9.16 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 277 | Potassium chlorate | 3811-04-9 | 69.83 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 278 | Acetonitrile | 75-05-8 | 670.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 279 | Chloropicrin | 76-06-2 | 1.40 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 280 | n-Amyl acetate #(T3) | 628-63-7 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 281 | n-Propyl alcohol #(T3) | 71-23-8 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 282 | Tetrahydrofuran #(T3) | 109-99-9 | 5000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 283 | Diborane | 19287-45-7 | 3.70 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 284 | Diethylamine #(T3) | 109-89-7 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 285 | Isoamyl acetate #(T3) | 123-92-2 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 286 | Methyl Cellosolve (r) #(I) | 109-86-4 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 287 | N-Ethylmorpholine #(I) | 100-74-3 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 288 | n-Heptane #(T3) | 142-82-5 | 750.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 289 | n-Hexane | 110-54-3 | 8600.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 290 | Pyridine #(T3) | 110-86-1 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 291 | Sulfur monochloride | 10025-67-9 | 15.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 292 | Triethylamine #(T3) | 121-44-8 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 293 | Cyclohexylamine T3 | 108-91-8 | 30.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 294 | Propyl chloroformate-T3* | 109-61-5 | 60.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 295 | Piperidine-T3* | 110-89-4 | 250.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 296 | 2-chlorobenzoyl Chloride | 609-65-4 | 1.00 | 5.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 297 | Chloroform-D | 865-49-6 | 500.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 298 | Profenofos #(I) | 41198-08-7 | 1600.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 299 | Cyanide | 57-12-5 | 25.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 300 | Methyl chloride | 74-87-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 301 | 1-Butene T3 | 106-98-9 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 302 | Paraquat* (dichloride) | 1910-42-5 | 19.60 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 303 | alpha-Chloroacetophenone * #(I) | 532-27-4 | 2.37 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 304 | Bifenthrin Tox est. on Pyr. | 82657-04-3 | 20.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 305 | Biphenyl * #(T3) | 92-52-4 | 15.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 306 | guanidine hydrochloride | 50-01-1 | 51.28 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 307 | Mancozeb | 8018-01-7 | 146.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 308 | Phenamiphos #(T3) | 22224-92-6 | 3.22 | 4.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 309 | Thiophanate methyl #(T3 of carbamate fungicides) | 23564-05-8 | 11.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 310 | Epichlorohydrin #(I) | 106-89-8 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 311 | Ethyl ether #(T3) | 60-29-7 | 1900.00 | 1.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 312 | Triphenyl phosphate* | 115-86-6 | 37.47 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 313 | Acrylyl Chloride *T3 | 814-68-6 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 314 | Chloromethyl methyl ether E3 | 107-30-2 | 10.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 268 | Methyl mercaptan | 9.88 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 11.88 |
| 269 | Triethanolamine-T3* | 9.88 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 11.88 |
| 270 | Antimony Pentafluoride T3 | 10.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 11.88 |
| 271 | Barium *T3 | 7.75 | 11.00 | 1.00 | 13.00 | 3.00 | 4.00 | 11.75 |
| 272 | Sodium azide (#T3) | 8.75 | 8.00 | 0.00 | 35.00 | 3.00 | 3.00 | 11.75 |
| 273 | Camphor (synthetic) * #(T3) | 7.75 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 11.75 |
| 274 | Phosphorus pentachloride * #(T3) | 8.75 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 11.75 |
| 275 | Quinone #(T3) | 7.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 11.75 |
| 276 | Sulfur trioxide-E3* | 8.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 11.75 |
| 277 | Potassium chlorate | 7.75 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 11.75 |
| 278 | Acetonitrile | 7.63 | 19.00 | 1.00 | 50.00 | 3.00 | 4.00 | 11.63 |
| 279 | Chloropicrin | 9.63 | 3.00 | 0.00 | 7.00 | 2.00 | 2.00 | 11.63 |
| 280 | n-Amyl acetate #(T3) | 7.63 | 14.00 | 1.00 | 37.00 | 3.00 | 4.00 | 11.63 |
| 281 | n-Propyl alcohol #(T3) | 7.63 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 11.63 |
| 282 | Tetrahydrofuran #(T3) | 5.63 | 21.00 | 2.00 | 65.00 | 4.00 | 6.00 | 11.63 |
| 283 | Diborane | 9.63 | 7.00 | 0.00 | 8.00 | 2.00 | 2.00 | 11.63 |
| 284 | Diethylamine #(T3) | 7.63 | 16.00 | 1.00 | 39.00 | 3.00 | 4.00 | 11.63 |
| 285 | Isoamyl acetate #(T3) | 7.63 | 13.00 | 1.00 | 46.00 | 3.00 | 4.00 | 11.63 |
| 286 | Methyl Cellosolve (r) #(I) | 7.63 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 11.63 |
| 287 | N-Ethylmorpholine #(I) | 8.63 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 11.63 |
| 288 | n-Heptane #(T3) | 7.63 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 11.63 |
| 289 | n-Hexane | 5.63 | 23.00 | 2.00 | 78.00 | 4.00 | 6.00 | 11.63 |
| 290 | Pyridine #(T3) | 7.63 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 11.63 |
| 291 | Sulfur monochloride | 8.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 11.63 |
| 292 | Triethylamine #(T3) | 7.63 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 11.63 |
| 293 | Cyclohexylamine T3 | 8.63 | 8.00 | 0.00 | 32.00 | 3.00 | 3.00 | 11.63 |
| 294 | Propyl chloroformate-T3* | 8.63 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 11.63 |
| 295 | Piperidine-T3* | 7.63 | 11.00 | 1.00 | 21.00 | 3.00 | 4.00 | 11.63 |
| 296 | 2-chlorobenzoyl Chloride | 8.50 | 5.00 | 0.00 | 26.00 | 3.00 | 3.00 | 11.50 |
| 297 | Chloroform-D | 9.50 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 11.50 |
| 298 | Profenofos #(I) | 8.50 | 4.00 | 0.00 | 21.00 | 3.00 | 3.00 | 11.50 |
| 299 | Cyanide | 10.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 11.50 |
| 300 | Methyl chloride | 7.50 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 11.50 |
| 301 | 1-Butene T3 | 7.50 | 15.00 | 1.00 | 50.00 | 3.00 | 4.00 | 11.50 |
| 302 | Paraquat* (dichloride) | 8.38 | 8.00 | 0.00 | 29.00 | 3.00 | 3.00 | 11.38 |
| 303 | alpha-Chloroacetophenone * #(I) | 9.38 | 3.00 | 0.00 | 10.00 | 2.00 | 2.00 | 11.38 |
| 304 | Bifenthrin Tox est. on Pyr. | 8.38 | 5.00 | 0.00 | 20.00 | 3.00 | 3.00 | 11.38 |
| 305 | Biphenyl * #(T3) | 8.38 | 7.00 | 0.00 | 18.00 | 3.00 | 3.00 | 11.38 |
| 306 | guanidine hydrochloride | 8.38 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 11.38 |
| 307 | Mancozeb | 7.38 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 11.38 |
| 308 | Phenamiphos #(T3) | 9.38 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 11.38 |
| 309 | Thiophanate methyl #(T3 of carbamate fungicides) | 8.38 | 8.00 | 0.00 | 30.00 | 3.00 | 3.00 | 11.38 |
| 310 | Epichlorohydrin #(I) | 7.38 | 15.00 | 1.00 | 34.00 | 3.00 | 4.00 | 11.38 |
| 311 | Ethyl ether #(T3) | 5.38 | 20.00 | 2.00 | 57.00 | 4.00 | 6.00 | 11.38 |
| 312 | Triphenyl phosphate* | 8.38 | 5.00 | 0.00 | 21.00 | 3.00 | 3.00 | 11.38 |
| 313 | Acrylyl Chloride *T3 | 8.38 | 5.00 | 0.00 | 15.00 | 3.00 | 3.00 | 11.38 |
| 314 | Chloromethyl methyl ether E3 | 8.38 | 8.00 | 0.00 | 11.00 | 3.00 | 3.00 | 11.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 315 | 1-methyl imidazole LD50 | 616-47-7 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 316 | 2-thiophenecarbonitrile (as CN) | 1003-31-2 | 25.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 317 | Bromobenzene #(T3) | 108-86-1 | 350.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 318 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 70788-37-3 | 70.99 | 3.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 319 | 2-Butoxyethanol #(T3) | 111-76-2 | 700.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 320 | 2-Ethoxyethanol #(T3) | 110-80-5 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 321 | 2-Ethoxyethyl acetate #(T3) | 111-15-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 322 | Allyl glycidyl ether #(I) | 106-92-3 | 50.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 323 | Chloroacetaldehyde | 107-20-0 | 9.90 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 324 | Diacetone alcohol #(T3) | 123-42-2 | 1800.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 325 | Dibutyl phosphate #(T3) | 107-66-4 | 30.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 326 | Diisobutyl ketone #(T3) | 108-83-8 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 327 | Methyl isobutyl carbinol #(I) | 108-11-2 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 328 | n-Butyl glycidyl ether #(T3) | 2426-08-6 | 250.00 | 2.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 329 | Nitrogen trifluoride #(T3) | 7783-54-2 | 800.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 330 | o-Dichlorobenzene #(T3) | 95-50-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 331 | Oxygen difluoride | 7783-41-7 | 2.50 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 5.00 |
| 332 | p-tert-Butyltoluene #(I) | 98-51-1 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 333 | Triethyl phosphite-T3* | 122-52-1 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 334 | Iodine pentafluoride R | 7783-66-6 | 98.07 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 2.50 |
| 335 | Nitroglycerin #(T3) | 55-63-0 | 8.07 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 336 | Phosphorus pentasulfide * #(T3) | 1314-80-3 | 27.50 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 337 | Sodium borate | 12179-04-3 | 32.09 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 338 | Aldicarb *T# | 116-06-3 | 12.87 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 339 | Antimony oxide *T3 | 1309-64-4 | 6.43 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 340 | Dioxane | 123-91-1 | 760.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 341 | Pirimicarb #(T3 as carbamate ester) | 5947-49-9 | 1.63 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 342 | Thallium #(T3) | 7440-28-0 | 1.77 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 343 | Allyl alcohol | 107-18-6 | 20.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 344 | Allyl chloride | 107-05-1 | 140.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 345 | Carbon disulfide | 75-15-0 | 480.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 346 | Dichloromonofluoromethane #(T3) | 75-43-4 | 5000.00 | 0.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 5.00 |
| 347 | Ethyl silicate #(E3) | 78-10-4 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 348 | Ferbam * #(I) | 14484-64-1 | 15.00 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 349 | Graphite #(T3) | 7782-42-5 | 1017.90 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 350 | Heptachlor * #(T3) | 76-44-8 | 2.29 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 351 | Hexachloroethane #(T3) | 67-72-1 | 300.00 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 352 | Hexachloronaphthalene * #(T3) | 1335-87-1 | 0.15 | 5.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 353 | Isopropylamine #(T3) | 75-31-0 | 750.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 354 | n-Pentane #(T3) | 109-66-0 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 355 | Chloromethyl ether E3 | 542-88-1 | 0.50 | 5.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 356 | Propionitrile-T3* | 107-12-0 | 37.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 357 | Phenyltrichlorosilane-T3* | 98-13-5 | 4.62 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 358 | Halothane (T:V) | 151-67-7 | 50.00 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 359 | Chlorobromomethane #(T3) | 74-97-5 | 2000.00 | 1.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 360 | Methyl chloroform | 71-55-6 | 4200.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 361 | Perchloryl fluoride #(T3) | 7616-94-6 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 5.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 315 | 1-methyl imidazole LD50 | 8.25 | 8.00 | 0.00 | 22.00 | 3.00 | 3.00 | 11.25 |
| 316 | 2-thiophenecarbonitrile (as CN) | 9.25 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 11.25 |
| 317 | Bromobenzene #(T3) | 8.25 | 8.00 | 0.00 | 34.00 | 3.00 | 3.00 | 11.25 |
| 318 | Toluene sulfonic acid #(T3 based on barium salt of the acid) | 9.25 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 11.25 |
| 319 | 2-Butoxyethanol #(T3) | 8.25 | 1.00 | 0.00 | 43.00 | 3.00 | 3.00 | 11.25 |
| 320 | 2-Ethoxyethanol #(T3) | 8.25 | 1.00 | 0.00 | 31.00 | 3.00 | 3.00 | 11.25 |
| 321 | 2-Ethoxyethyl acetate #(T3) | 8.25 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 11.25 |
| 322 | Allyl glycidyl ether #(I) | 9.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 11.25 |
| 323 | Chloroacetaldehyde | 10.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 11.25 |
| 324 | Diacetone alcohol #(T3) | 7.25 | 11.00 | 1.00 | 30.00 | 3.00 | 4.00 | 11.25 |
| 325 | Dibutyl phosphate #(T3) | 9.25 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 11.25 |
| 326 | Diisobutyl ketone #(T3) | 8.25 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 11.25 |
| 327 | Methyl isobutyl carbinol #(I) | 8.25 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 11.25 |
| 328 | n-Butyl glycidyl ether #(T3) | 8.25 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 11.25 |
| 329 | Nitrogen trifluoride #(T3) | 8.25 | 7.00 | 0.00 | 16.00 | 3.00 | 3.00 | 11.25 |
| 330 | o-Dichlorobenzene #(T3) | 8.25 | 9.00 | 0.00 | 37.00 | 3.00 | 3.00 | 11.25 |
| 331 | Oxygen difluoride | 10.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 11.25 |
| 332 | p-tert-Butyltoluene #(I) | 9.25 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 11.25 |
| 333 | Triethyl phosphite-T3* | 8.25 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 11.25 |
| 334 | Iodine pentafluoride R | 9.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 11.25 |
| 335 | Nitroglycerin #(T3) | 7.13 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 11.13 |
| 336 | Phosphorus pentasulfide * #(T3) | 7.13 | 12.00 | 1.00 | 28.00 | 3.00 | 4.00 | 11.13 |
| 337 | Sodium borate | 9.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 11.00 |
| 338 | Aldicarb *T# | 9.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 11.00 |
| 339 | Antimony oxide *T3 | 10.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 11.00 |
| 340 | Dioxane | 7.00 | 12.00 | 1.00 | 34.00 | 3.00 | 4.00 | 11.00 |
| 341 | Pirimicarb #(T3 as carbamate ester) | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 11.00 |
| 342 | Thallium #(T3) | 10.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 11.00 |
| 343 | Allyl alcohol | 8.00 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 11.00 |
| 344 | Allyl chloride | 7.00 | 11.00 | 1.00 | 19.00 | 3.00 | 4.00 | 11.00 |
| 345 | Carbon disulfide | 7.00 | 16.00 | 1.00 | 45.00 | 3.00 | 4.00 | 11.00 |
| 346 | Dichloromonofluoromethane #(T3) | 10.00 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 11.00 |
| 347 | Ethyl silicate #(E3) | 7.00 | 10.00 | 1.00 | 39.00 | 3.00 | 4.00 | 11.00 |
| 348 | Ferbam * #(I) | 9.00 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 11.00 |
| 349 | Graphite #(T3) | 7.00 | 16.00 | 1.00 | 43.00 | 3.00 | 4.00 | 11.00 |
| 350 | Heptachlor * #(T3) | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 11.00 |
| 351 | Hexachloroethane #(T3) | 8.00 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 11.00 |
| 352 | Hexachloronaphthalene * #(T3) | 11.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.00 |
| 353 | Isopropylamine #(T3) | 7.00 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 11.00 |
| 354 | n-Pentane #(T3) | 6.00 | 20.00 | 2.00 | 47.00 | 3.00 | 5.00 | 11.00 |
| 355 | Chloromethyl ether E3 | 10.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 11.00 |
| 356 | Propionitrile-T3* | 8.00 | 3.00 | 0.00 | 14.00 | 3.00 | 3.00 | 11.00 |
| 357 | Phenyltrichlorosilane-T3* | 9.00 | 1.00 | 0.00 | 9.00 | 2.00 | 2.00 | 11.00 |
| 358 | Halothane (T:V) | 9.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 10.88 |
| 359 | Chlorobromomethane #(T3) | 7.88 | 7.00 | 0.00 | 11.00 | 3.00 | 3.00 | 10.88 |
| 360 | Methyl chloroform | 6.88 | 14.00 | 1.00 | 20.00 | 3.00 | 4.00 | 10.88 |
| 361 | Perchloryl fluoride #(T3) | 9.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 362 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 126-33-0 | 150.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 363 | Xylidine #(T3) | 1300-73-8 | 50.00 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 364 | Arsenic trichloride T3 | 7784-34-1 | 12.50 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 365 | Cyanogen T3 | 460-19-5 | 15.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 366 | Carbonyl sulfide T3 | 463-58-1 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 367 | Vinyl chloride-T3* | 75-01-4 | 20000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 368 | Methyl ether-T3* | 115-10-6 | 60000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 369 | Difluoroethane T3 | 75-37-6 | 75000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 370 | Sodium hydrosulfite-T3* | 7775-14-6 | 35.11 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 371 | Hydrogen cyanide | 74-90-8 | 15.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 372 | Acrolein | 107-02-8 | 1.40 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 373 | p-Dichlorobenzene #(T3) | 106-46-7 | 150.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 374 | Propylene oxide | 75-56-9 | 870.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 375 | Potassium perchlorate-T3* | 7778-74-7 | 88.24 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 376 | Ethyl bromide #(T3) | 74-96-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 377 | Thioglycol TEEL-3 | 60-24-2 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 378 | 1,2,3-Trichloropropane #(T3) | 96-18-4 | 100.00 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 379 | 2-Butanone | 78-93-3 | 4000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 380 | Chlorodiphenyl (42% chlorine)* #(T3) | 53469-21-9 | 0.47 | 5.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 381 | Diazomethane #(T3) | 334-88-3 | 2.00 | 4.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 5.00 |
| 382 | Diisopropylamine #(T3) | 108-18-9 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 383 | Isophorone #(T3) | 78-59-1 | 200.00 | 2.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 384 | Isopropyl acetate #(T3) | 108-21-4 | 1800.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 385 | n-Butylamine #(T3) | 109-73-9 | 300.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 386 | n-Propyl acetate #(I) | 109-60-4 | 1700.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 387 | Octane #(T3) | 111-65-9 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 388 | Phenyl glycidyl ether #(I) | 122-60-1 | 100.00 | 3.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 389 | Propylene dichloride #(T3) | 78-87-5 | 400.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 390 | sec-Butyl alcohol #(T3) | 78-92-2 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 391 | tert-Butyl alcohol #(T3) | 75-65-0 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 392 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 78-53-5 | 0.30 | 5.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 393 | Ethyl phosphonothioic dichloride R | 993-43-1 | 7.50 | 4.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 394 | Fluorosulfonic acid T3 | 7789-21-1 | 7.33 | 4.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 395 | Acrylamide * #(T3) | 79-06-1 | 20.64 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 396 | Ethyl chloride #(T3) | 75-00-3 | 3800.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 397 | Methidathion #(T3) | 950-37-8 | 32.35 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 398 | Ammonium sulfamate * #(T3) | 7773-06-0 | 107.10 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 399 | Diketene | 674-82-8 | 2.00 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 400 | Ethyl acrylate | 140-88-5 | 240.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 401 | Methyl acrylate #(T3) | 96-33-3 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 402 | Methyl hydrazine | 60-34-4 | 2.70 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 403 | Methyl isocyanate | 624-83-9 | 0.20 | 5.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 404 | Methyl methacrylate | 80-62-6 | 570.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 405 | Methyltrichlorosilane-E3[a] | 75-79-6 | 15.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 406 | Dimethyldichlorosilane T3 | 75-78-5 | 75.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 362 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 8.88 | 5.00 | 0.00 | 10.00 | 2.00 | 2.00 | 10.88 |
| 363 | Xylidine #(T3) | 9.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 10.88 |
| 364 | Arsenic trichloride T3 | 9.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 10.88 |
| 365 | Cyanogen T3 | 9.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.88 |
| 366 | Carbonyl sulfide T3 | 8.88 | 2.00 | 0.00 | 10.00 | 2.00 | 2.00 | 10.88 |
| 367 | Vinyl chloride-T3* | 6.88 | 6.00 | 0.00 | 63.00 | 4.00 | 4.00 | 10.88 |
| 368 | Methyl ether-T3* | 6.88 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 10.88 |
| 369 | Difluoroethane T3 | 6.88 | 14.00 | 1.00 | 15.00 | 3.00 | 4.00 | 10.88 |
| 370 | Sodium hydrosulfite-T3* | 5.88 | 20.00 | 2.00 | 48.00 | 3.00 | 5.00 | 10.88 |
| 371 | Hydrogen cyanide | 6.75 | 13.00 | 1.00 | 25.00 | 3.00 | 4.00 | 10.75 |
| 372 | Acrolein | 7.75 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 10.75 |
| 373 | p-Dichlorobenzene #(T3) | 6.75 | 10.00 | 1.00 | 38.00 | 3.00 | 4.00 | 10.75 |
| 374 | Propylene oxide | 5.75 | 16.00 | 1.00 | 54.00 | 4.00 | 5.00 | 10.75 |
| 375 | Potassium perchlorate-T3* | 7.75 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 10.75 |
| 376 | Ethyl bromide #(T3) | 6.63 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 10.63 |
| 377 | Thioglycol TEEL-3 | 7.63 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 10.63 |
| 378 | 1,2,3-Trichloropropane #(T3) | 8.63 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 10.63 |
| 379 | 2-Butanone | 5.63 | 18.00 | 1.00 | 63.00 | 4.00 | 5.00 | 10.63 |
| 380 | Chlorodiphenyl (42% chlorine)* #(T3) | 10.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 |
| 381 | Diazomethane #(T3) | 9.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.63 |
| 382 | Diisopropylamine #(T3) | 7.63 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 10.63 |
| 383 | Isophorone #(T3) | 7.63 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 10.63 |
| 384 | Isopropyl acetate #(T3) | 6.63 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 10.63 |
| 385 | n-Butylamine #(T3) | 7.63 | 8.00 | 0.00 | 19.00 | 3.00 | 3.00 | 10.63 |
| 386 | n-Propyl acetate #(I) | 6.63 | 12.00 | 1.00 | 31.00 | 3.00 | 4.00 | 10.63 |
| 387 | Octane #(T3) | 7.63 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 10.63 |
| 388 | Phenyl glycidyl ether #(I) | 8.63 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 10.63 |
| 389 | Propylene dichloride #(T3) | 7.63 | 9.00 | 0.00 | 16.00 | 3.00 | 3.00 | 10.63 |
| 390 | sec-Butyl alcohol #(T3) | 6.63 | 12.00 | 1.00 | 24.00 | 3.00 | 4.00 | 10.63 |
| 391 | tert-Butyl alcohol #(T3) | 6.63 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 10.63 |
| 392 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 10.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.63 |
| 393 | Ethyl phosphonothioic dichloride R | 9.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.63 |
| 394 | Fluorosulfonic acid T3 | 9.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.63 |
| 395 | Acrylamide * #(T3) | 6.50 | 14.00 | 1.00 | 48.00 | 3.00 | 4.00 | 10.50 |
| 396 | Ethyl chloride #(T3) | 7.50 | 8.00 | 0.00 | 21.00 | 3.00 | 3.00 | 10.50 |
| 397 | Methidathion #(T3) | 8.38 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 10.38 |
| 398 | Ammonium sulfamate * #(T3) | 7.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 10.38 |
| 399 | Diketene | 8.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 10.38 |
| 400 | Ethyl acrylate | 6.38 | 16.00 | 1.00 | 40.00 | 3.00 | 4.00 | 10.38 |
| 401 | Methyl acrylate #(T3) | 6.38 | 16.00 | 1.00 | 46.00 | 3.00 | 4.00 | 10.38 |
| 402 | Methyl hydrazine | 8.38 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 10.38 |
| 403 | Methyl isocyanate | 9.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.38 |
| 404 | Methyl methacrylate | 6.38 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 10.38 |
| 405 | Methyltrichlorosilane-E3[a] | 7.38 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 10.38 |
| 406 | Dimethyldichlorosilane T3 | 7.38 | 4.00 | 0.00 | 20.00 | 3.00 | 3.00 | 10.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 407 | Acetyl Chloride *T3 | 75-36-5 | 125.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 408 | Vinyl acetate monomer-E3* | 108-05-4 | 500.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 409 | Sodium borohydride #(T3) | 16940-66-2 | 4.85 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 410 | 5-Methyl 3-heptanone #(I) | 541-85-5 | 100.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 411 | Chlordane * #(T3) | 57-74-9 | 5.97 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 412 | Stibine | 7803-52-3 | 9.60 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 413 | tert-Butyl chromate #(I) | 1189-85-1 | 1.59 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 414 | Butyltrichlorosilane SC | 7521-80-4 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 415 | Octyltrichlorosilane-A3* (60min | 5283-66-9 | 33.00 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 416 | o-Chlorobenzylidene malononitrile * #(T3) | 2698-41-1 | 0.26 | 5.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 1.00 |
| 417 | p-Nitroaniline * #(T3) | 100-01-6 | 53.10 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 1.00 |
| 418 | Iron phosphate #(T3 as iron) | 10045-86-0 | 214.47 | 2.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 419 | Aldrin * #(T3) | 309-00-2 | 1.68 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 420 | DDT * #(T3) | 50-29-3 | 34.49 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 421 | Dieldrin * #(T3) | 60-57-1 | 3.21 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 422 | Mercuric Salicylate #(T3 of Hg) | 5970-32-1 | 1.08 | 4.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 423 | Tetraethyl lead #(T3) | 78-00-2 | 4.51 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 424 | Toxaphene #(T3 based on Keplinger 1963 study) | 8001-35-2 | 29.53 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 425 | 2,4,5-T * #(T3) | 93-76-5 | 23.92 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 426 | ANTU * #(T3) | 86-88-4 | 12.10 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 427 | Benzoyl peroxide* #(T3) | 94-36-0 | 50.47 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 428 | Bromodiolone (Rat Inh. LC50) | 54149-17-6 | 23.20 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 429 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 300-76-5 | 12.83 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 430 | Isopropyl ether #(T3) | 108-20-3 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 431 | Methoxychlor * #(T3) | 72-43-5 | 35.37 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 432 | Pindone * #(I) | 83-26-1 | 10.62 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 433 | Rotenone * #(T3) | 83-79-4 | 30.99 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 434 | Tetryl * #(T3) | 479-45-8 | 42.57 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 435 | Allylamine *T3 | 107-11-9 | 18.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 436 | Trimethyl phosphite-T3* | 121-45-9 | 750.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 437 | Ethyltrichlorosilane T3 | 115-21-9 | 6.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 438 | Boron trifluoride compound with methyl ether (1:1) T3 | 353-42-4 | 7.50 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 439 | Aqua Regia *T3 | 8007-56-5 | 35.01 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 2.50 |
| 440 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8003-34-7 | 326.87 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 441 | Thiodiglycol-Alfa MSDS*B71 | 111-48-8 | 4150.00 | 0.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 2.50 |
| 442 | 2-methylpropene-T3* | 115-11-7 | 100000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 5.00 |
| 443 | Trinitrophenol-T3* | 88-89-1 | 8.00 | 4.00 | 4.00 | 0.00 | 1.00 | 3.75 | 1.88 | 1.00 |
| 444 | 1,2-dimethylimidazole LD50 | 1739-84-0 | 417.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 445 | Mercury oxycyanide as Hg | 1335-31-5 | 1.08 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 446 | Trypan blue #(T3) | 72-57-1 | 14.02 | 3.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 447 | Acetaldehyde | 75-07-0 | 840.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 448 | Dipropylene glycol methyl ether #(T3) | 34590-94-8 | 400.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 407 | Acetyl Chloride *T3 | 6.38 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 10.38 |
| 408 | Vinyl acetate monomer-E3* | 6.38 | 4.00 | 0.00 | 53.00 | 4.00 | 4.00 | 10.38 |
| 409 | Sodium borohydride #(T3) | 6.25 | 13.00 | 1.00 | 34.00 | 3.00 | 4.00 | 10.25 |
| 410 | 5-Methyl 3-heptanone #(I) | 9.25 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 10.25 |
| 411 | Chlordane * #(T3) | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 412 | Stibine | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 413 | tert-Butyl chromate #(I) | 10.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.25 |
| 414 | Butyltrichlorosilane SC | 9.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 10.25 |
| 415 | Octyltrichlorosilane-A3* (60min | 9.25 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 10.25 |
| 416 | o-Chlorobenzylidene malononitrile * #(T3) | 9.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.13 |
| 417 | p-Nitroaniline * #(T3) | 7.13 | 5.00 | 0.00 | 47.00 | 3.00 | 3.00 | 10.13 |
| 418 | Iron phosphate #(T3 as iron) | 8.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 10.00 |
| 419 | Aldrin * #(T3) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 |
| 420 | DDT * #(T3) | 9.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 10.00 |
| 421 | Dieldrin * #(T3) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 |
| 422 | Mercuric Salicylate #(T3 of Hg) | 10.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.00 |
| 423 | Tetraethyl lead #(T3) | 9.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.00 |
| 424 | Toxaphene #(T3 based on Keplinger 1963 study) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 425 | 2,4,5-T * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 426 | ANTU * #(T3) | 9.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 10.00 |
| 427 | Benzoyl peroxide* #(T3) | 4.00 | 22.00 | 2.00 | 70.00 | 4.00 | 6.00 | 10.00 |
| 428 | Bromodiolone (Rat Inh. LC50) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 429 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 9.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 10.00 |
| 430 | Isopropyl ether #(T3) | 6.00 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 10.00 |
| 431 | Methoxychlor * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 432 | Pindone * #(I) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 433 | Rotenone * #(T3) | 9.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.00 |
| 434 | Tetryl * #(T3) | 9.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 10.00 |
| 435 | Allylamine *T3 | 8.00 | 5.00 | 0.00 | 9.00 | 2.00 | 2.00 | 10.00 |
| 436 | Trimethyl phosphite-T3* | 7.00 | 4.00 | 0.00 | 18.00 | 3.00 | 3.00 | 10.00 |
| 437 | Ethyltrichlorosilane T3 | 9.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 10.00 |
| 438 | Boron trifluoride compound with methyl ether (1:1) T3 | 9.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 10.00 |
| 439 | Aqua Regia *T3 | 9.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.88 |
| 440 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8.88 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 9.88 |
| 441 | Thiodiglycol-Alfa MSDS*B71 | 6.88 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 9.88 |
| 442 | 2-methylpropene-T3* | 6.88 | 3.00 | 0.00 | 40.00 | 3.00 | 3.00 | 9.88 |
| 443 | Trinitrophenol-T3* | 6.88 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 9.88 |
| 444 | 1,2-dimethylimidazole LD50 | 6.75 | 5.00 | 0.00 | 11.00 | 3.00 | 3.00 | 9.75 |
| 445 | Mercury oxycyanide as Hg | 8.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.75 |
| 446 | Trypan blue #(T3) | 7.75 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 9.75 |
| 447 | Acetaldehyde | 5.75 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 9.75 |
| 448 | Dipropylene glycol methyl ether #(T3) | 6.75 | 7.00 | 0.00 | 35.00 | 3.00 | 3.00 | 9.75 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 449 | Methyl Cellosolve (r) acetate #(I) | 110-49-6 | 200.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 450 | Calcium phosphide SC | 1305-99-3 | 1.80 | 4.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 451 | Trichlorosilane-E3* | 10025-78-2 | 25.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 452 | Aluminum bromide, anydrous as AlCl3 | 7727-15-3 | 44.84 | 3.00 | 2.00 | 2.50 | 0.00 | 5.00 | 3.75 | 1.00 |
| 453 | Nickel Carbonyl-T3* | 13463-39-3 | 0.16 | 5.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 454 | 2-Pentanone #(T3) | 107-87-9 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 455 | Cyclohexene #(T3) | 110-83-8 | 2000.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 456 | Ethyl formate #(I) | 109-94-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 457 | Glycidol #(I) | 556-52-5 | 150.00 | 2.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 458 | Methyl acetate #(I) | 79-20-9 | 3100.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 459 | Methylcyclohexane #(T3) | 108-87-2 | 1200.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 460 | n-Butyl mercaptan #(T3) | 109-79-5 | 500.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 461 | Turpentine #(T3) | 8006-64-2 | 800.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 462 | Isobutyronitrile-E3* | 78-82-0 | 200.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 463 | Methyl thiocyanate-T3* | 1556-64-9 | 28.40 | 3.00 | 1.00 | 3.75 | 2.00 | 2.50 | 3.13 | 2.50 |
| 464 | Dodecyltrichlorosilane Sc | 4484-72-41 | 33.00 | 3.00 | 2.00 | 2.50 | 1.00 | 3.75 | 3.13 | 2.50 |
| 465 | Bromine pentafluoride T3 | 7789-30-2 | 35.00 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 466 | Bromine trifluoride T3 | 7787-71-5 | 89.30 | 3.00 | 3.00 | 1.25 | 0.00 | 5.00 | 3.13 | 2.50 |
| 467 | Germane T3 | 7782-65-2 | 150.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 468 | Silane-T3* | 7803-62-5 | 4000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 469 | p-Nitrochlorobenzene * #(T3) | 100-00-5 | 15.52 | 3.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 470 | Difluorodibromomethane #(I) | 75-61-6 | 2000.00 | 1.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 2.50 |
| 471 | Dinitrotoluene * #(T3) | 25321-14-6 | 6.70 | 4.00 | 3.00 | 1.25 | 1.00 | 3.75 | 2.50 | 1.00 |
| 472 | 2-Butene T3 | 107-01-7 | 300.00 | 2.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 473 | 2-Butene-trans T3 | 624-64-6 | 25000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 474 | 2-Butene-cis T3 | 590-18-1 | 500000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 475 | 1,1-Dimethylhydrazine | 57-14-7 | 11.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 476 | Hexachlorobenzene | 118-74-1 | 17.17 | 3.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 477 | Mercuric arsenate #(T3 of Hg) | 7784-37-4 | 1.08 | 4.00 | 1.00 | 3.75 | 0.00 | 5.00 | 4.38 | 1.00 |
| 478 | Chlorinated camphene * #(T3) | 8001-35-2 | 11.80 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 479 | Crotonaldehyde | 4170-30-3 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 480 | Terphenyls * #(I) | 92-06-8; 84-15-1; 92-94-4 | 53.08 | 3.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 481 | Tetranitromethane | 509-14-8 | 1.70 | 4.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 482 | Tetramethylsilane-T3* | 75-76-3 | 125.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 483 | Trimethylchlorosilane-E3[a] | 75-77-44 | 150.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 484 | Isoflurane #(IDLH of halgenated ethers-general) | 26675-46-7 | 2000.00 | 1.00 | 1.00 | 3.75 | 1.00 | 3.75 | 3.75 | 2.50 |
| 485 | Cyclopentadiene #(I) | 542-92-7 | 750.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 486 | Ethyl butyl ketone #(T3) | 106-35-4 | 1000.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 487 | Methylcyclohexanol #(I) | 25639-42-3 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 488 | o-Methylcyclohexanone #(T3) | 583-60-8 | 600.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 489 | Aluminum phosphide *T3 | 20859-73-8 | 8.44 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 490 | Hydrazine | 302-01-2 | 35.00 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 491 | Crag (r) herbicide #(T3) | 136-78-7 | 39.55 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 492 | Azinphos-ethyl *T3 | 2642-71-9 | 10.63 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 493 | beta-Chloroprene #(T3) | 126-99-8 | 300.00 | 2.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 449 | Methyl Cellosolve (r) acetate #(I) | 6.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 9.75 |
| 450 | Calcium phosphide SC | 8.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 9.75 |
| 451 | Trichlorosilane-E3* | 6.75 | 4.00 | 0.00 | 15.00 | 3.00 | 3.00 | 9.75 |
| 452 | Aluminum bromide, anydrous as AlCl3 | 7.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.75 |
| 453 | Nickel Carbonyl-T3* | 8.75 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.75 |
| 454 | 2-Pentanone #(T3) | 6.63 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 9.63 |
| 455 | Cyclohexene #(T3) | 6.63 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 9.63 |
| 456 | Ethyl formate #(I) | 6.63 | 6.00 | 0.00 | 16.00 | 3.00 | 3.00 | 9.63 |
| 457 | Glycidol #(I) | 7.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.63 |
| 458 | Methyl acetate #(I) | 5.63 | 15.00 | 1.00 | 33.00 | 3.00 | 4.00 | 9.63 |
| 459 | Methylcyclohexane #(T3) | 6.63 | 9.00 | 0.00 | 17.00 | 3.00 | 3.00 | 9.63 |
| 460 | n-Butyl mercaptan #(T3) | 7.63 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.63 |
| 461 | Turpentine #(T3) | 7.63 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 9.63 |
| 462 | Isobutyronitrile-E3* | 7.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.63 |
| 463 | Methyl thiocyanate-T3* | 8.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.63 |
| 464 | Dodecyltrichlorosilane Sc | 8.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 9.63 |
| 465 | Bromine pentafluoride T3 | 8.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 9.63 |
| 466 | Bromine trifluoride T3 | 8.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.63 |
| 467 | Germane T3 | 7.63 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.63 |
| 468 | Silane-T3* | 5.63 | 16.00 | 1.00 | 30.00 | 3.00 | 4.00 | 9.63 |
| 469 | p-Nitrochlorobenzene * #(T3) | 6.50 | 6.00 | 0.00 | 25.00 | 3.00 | 3.00 | 9.50 |
| 470 | Difluorodibromomethane #(I) | 8.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 9.50 |
| 471 | Dinitrotoluene * #(T3) | 7.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 9.50 |
| 472 | 2-Butene T3 | 9.50 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.50 |
| 473 | 2-Butene-trans T3 | 7.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.50 |
| 474 | 2-Butene-cis T3 | 7.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 9.50 |
| 475 | 1,1-Dimethylhydrazine | 7.38 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 9.38 |
| 476 | Hexachlorobenzene | 8.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.38 |
| 477 | Mercuric arsenate #(T3 of Hg) | 9.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.38 |
| 478 | Chlorinated camphene * #(T3) | 8.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 9.38 |
| 479 | Crotonaldehyde | 7.38 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 9.38 |
| 480 | Terphenyls * #(I) | 8.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 9.38 |
| 481 | Tetranitromethane | 8.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 9.38 |
| 482 | Tetramethylsilane-T3* | 6.38 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 9.38 |
| 483 | Trimethylchlorosilane-E3[a] | 6.38 | | 0.00 | 30.00 | 3.00 | 3.00 | 9.38 |
| 484 | Isoflurane #(IDLH of halgenated ethers-general) | 7.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 9.25 |
| 485 | Cyclopentadiene #(I) | 8.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 9.25 |
| 486 | Ethyl butyl ketone #(T3) | 8.25 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 9.25 |
| 487 | Methylcyclohexanol #(I) | 8.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 9.25 |
| 488 | o-Methylcyclohexanone #(T3) | 8.25 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 9.25 |
| 489 | Aluminum phosphide *T3 | 6.25 | 2.00 | 0.00 | 17.00 | 3.00 | 3.00 | 9.25 |
| 490 | Hydrazine | 6.13 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 9.13 |
| 491 | Crag (r) herbicide #(T3) | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 492 | Azinphos-ethyl *T3 | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 493 | beta-Chloroprene #(T3) | 7.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 9.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 494 | Ethylene glycol dinitrate #(I) | 628-96-6 | 12.06 | 3.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 495 | Methylal #(T3) | 109-87-5 | 2200.00 | 0.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 496 | Ronnel #(I) | 299-84-3 | 22.81 | 3.00 | 0.00 | 5.00 | 0.00 | 5.00 | 5.00 | 1.00 |
| 497 | tert-Butyl acetate #(T3) | 540-88-5 | 1500.00 | 1.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 498 | Isopentane-T3* | 78-78-4 | 20000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 499 | Propyltrichlorosilane-A3* (60 min | 141-57-1 | 33.00 | 3.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 500 | Hexyltrichlorosilane T3 | 928-65-4 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 501 | Octadecyltrichlorosilane-A3* (60min | 112-04-9 | 33.00 | 3.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 502 | Ethyl nitrite T3 | 109-95-5 | 60.00 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 5.00 |
| 503 | Diglycidyl ether #(T3) | 2238-07-5 | 10.00 | 4.00 | 4.00 | 0.00 | 2.00 | 2.50 | 1.25 | 2.50 |
| 504 | Ethyleneimine | 151-56-4 | 9.90 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 505 | Pentaborane | 19624-22-7 | 0.70 | 5.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 506 | Tetramethyl succinonitrile #(I) | 3333-52-6 | 5.00 | 4.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 507 | Vinylidene chloride, inhibited-T3 | 75-35-4 | 600.00 | 2.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 508 | Tetramethyllead-T3* | 75-74-1 | 4.57 | 4.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 509 | sec-Amyl acetate #(T3) | 626-38-0 | 1000.00 | 2.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 510 | Trifluorochloroethylene-E3* | 79-38-9 | 300.00 | 2.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 511 | Lithium #(T3) | 7439-93-2 | 1409.20 | 1.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 512 | Decaborane * #(T3) | 17702-41-9 | 3.00 | 4.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 1.00 |
| 513 | Morpholine #(T3) | 110-91-8 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 1.00 |
| 514 | Dimethylpropane, 2,2- T3 | 463-82-1 | 50000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 515 | Cyclopropane T3 | 75-19-4 | 60000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 5.00 |
| 516 | Diethyleneglycol dinitrate R | 693-21-0 | 0.31 | 5.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 2.50 |
| 517 | Ammonium perchlorate T3 | 7790-98-9 | 104.05 | 2.00 | 4.00 | 0.00 | 0.00 | 5.00 | 2.50 | 1.00 |
| 518 | 2-Nitropropane #(T3) | 79-46-9 | 100.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 519 | Furan T3 | 110-00-9 | 19.00 | 3.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 520 | Crotonaldehyde, (E)- T3 | 123-73-9 | 14.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 521 | Allyltrichlorosilane, stabilized as allyl chloride | 107-37-9 | 20.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 522 | Methacrylonitrile-T3* | 126-98-7 | 25.00 | 3.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 523 | 1,3- pentadiene-R*B97 | 504-60-9 | 280.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 524 | sec Hexyl acetate #(I) | 108-84-9 | 500.00 | 2.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 2.50 |
| 525 | Propadiene-T3* | 463-49-0 | 4000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 526 | Vinylidene fluoride-T3* | 75-38-7 | 12500.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 527 | Nitromethane #(T3) | 75-52-5 | 750.00 | 2.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 2.50 |
| 528 | Trinitrotoluene | 118-96-7 | 55.32 | 3.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 529 | Mesityl oxide #(T3) | 141-79-7 | 1400.00 | 1.00 | 1.00 | 3.75 | 3.00 | 1.25 | 2.50 | 2.50 |
| 530 | Methyl formate #(T3) | 107-31-3 | 4500.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 531 | Vinyl toluene #(I) | 25013-15-4 | 400.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 532 | Isoproyl chloride-T3* | 75-29-6 | 15000.00 | 0.00 | 0.00 | 5.00 | 4.00 | 0.00 | 2.50 | 2.50 |
| 533 | Amyltrichlorosilane R | 107-72-2 | 500.00 | 2.00 | 2.00 | 2.50 | 2.00 | 2.50 | 2.50 | 2.50 |
| 534 | Lithium nitride-T3* | 26134-62-3 | 7.02 | 4.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 1.00 |
| 535 | Nitroethane #(T3) | 79-24-3 | 1000.00 | 2.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 536 | Propylene imine | 75-55-8 | 23.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 537 | Pentaerythrite tetranitrate #(T3) | 78-11-5 | 38.97 | 3.00 | 4.00 | 0.00 | 3.00 | 1.25 | 0.63 | 1.00 |
| 538 | 2-Hexanone #(T3) | 591-78-6 | 1600.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 539 | sec-Butyl acetate #(T3) | 105-46-4 | 1500.00 | 1.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 540 | Tetrafluoroethylene-E3* | 116-14-3 | 10000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 494 | Ethylene glycol dinitrate #(I) | 8.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 9.00 |
| 495 | Methylal #(T3) | 5.00 | 10.00 | 1.00 | 13.00 | 3.00 | 4.00 | 9.00 |
| 496 | Ronnel #(I) | 9.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.00 |
| 497 | tert-Butyl acetate #(T3) | 6.00 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 9.00 |
| 498 | Isopentane-T3* | 5.00 | 17.00 | 1.00 | 29.00 | 3.00 | 4.00 | 9.00 |
| 499 | Propyltrichlorosilane-A3* (60 min | 8.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 9.00 |
| 500 | Hexyltrichlorosilane T3 | 8.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 9.00 |
| 501 | Octadecyltrichlorosilane-A3* (60min | 8.00 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 9.00 |
| 502 | Ethyl nitrite T3 | 8.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 9.00 |
| 503 | Diglycidyl ether #(T3) | 7.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 8.75 |
| 504 | Ethyleneimine | 7.75 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 8.75 |
| 505 | Pentaborane | 8.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.75 |
| 506 | Tetramethyl succinonitrile #(I) | 8.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.75 |
| 507 | Vinylidene chloride, inhibited-T3 | 5.75 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 8.75 |
| 508 | Tetramethyllead-T3* | 7.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 8.75 |
| 509 | sec-Amyl acetate #(T3) | 7.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 8.63 |
| 510 | Trifluorochloroethylene-E3* | 7.63 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 8.63 |
| 511 | Lithium #(T3) | 4.50 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 8.50 |
| 512 | Decaborane * #(T3) | 7.50 | 2.00 | 0.00 | 1.00 | 1.00 | 1.00 | 8.50 |
| 513 | Morpholine #(T3) | 4.50 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 8.50 |
| 514 | Dimethylpropane, 2,2- T3 | 7.50 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 8.50 |
| 515 | Cyclopropane T3 | 7.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 8.50 |
| 516 | Diethyleneglycol dinitrate R | 7.50 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 8.50 |
| 517 | Ammonium perchlorate T3 | 5.50 | 2.00 | 0.00 | 16.00 | 3.00 | 3.00 | 8.50 |
| 518 | 2-Nitropropane #(T3) | 7.38 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 8.38 |
| 519 | Furan T3 | 7.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 8.38 |
| 520 | Crotonaldehyde, (E)- T3 | 7.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 8.38 |
| 521 | Allyltrichlorosilane, stabilized as allyl chloride | 7.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 8.38 |
| 522 | Methacrylonitrile-T3* | 7.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 8.38 |
| 523 | 1,3- pentadiene-R*B97 | 6.38 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 8.38 |
| 524 | sec Hexyl acetate #(I) | 8.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.25 |
| 525 | Propadiene-T3* | 6.25 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 8.25 |
| 526 | Vinylidene fluoride-T3* | 6.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 8.25 |
| 527 | Nitromethane #(T3) | 5.13 | 7.00 | 0.00 | 20.00 | 3.00 | 3.00 | 8.13 |
| 528 | Trinitrotoluene | 4.00 | 11.00 | 1.00 | 17.00 | 3.00 | 4.00 | 8.00 |
| 529 | Mesityl oxide #(T3) | 6.00 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 8.00 |
| 530 | Methyl formate #(T3) | 5.00 | 8.00 | 0.00 | 16.00 | 3.00 | 3.00 | 8.00 |
| 531 | Vinyl toluene #(I) | 7.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 8.00 |
| 532 | Isoproyl chloride-T3* | 5.00 | 1.00 | 0.00 | 13.00 | 3.00 | 3.00 | 8.00 |
| 533 | Amyltrichlorosilane R | 7.00 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 8.00 |
| 534 | Lithium nitride-T3* | 6.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 7.88 |
| 535 | Nitroethane #(T3) | 5.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 7.75 |
| 536 | Propylene imine | 6.75 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 7.75 |
| 537 | Pentaerythrite tetranitrate #(T3) | 4.63 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 7.63 |
| 538 | 2-Hexanone #(T3) | 6.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 7.63 |
| 539 | sec-Butyl acetate #(T3) | 6.63 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 7.63 |
| 540 | Tetrafluoroethylene-E3* | 5.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 7.63 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Reactivity Number | Reactivity Score | Flammability Number | Flammability Score | Stability Score | Physical State |
|---|---|---|---|---|---|---|---|---|---|---|
| 541 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 22160-08-3 | 110.00 | 2.00 | 0.00 | 5.00 | 1.00 | 3.75 | 4.38 | 1.00 |
| 542 | 1,2-Dichloroethylene #(T3) | 540-59-0 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 543 | 1-Chloro-1-nitropropane #(I) | 600-25-9 | 100.00 | 3.00 | 3.00 | 1.25 | 2.00 | 2.50 | 1.88 | 2.50 |
| 544 | 1-Nitropropane #(I) | 108-03-2 | 1000.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 545 | Ethyl mercaptan | 75-08-1 | 360.00 | 2.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 546 | Isopropyl glycidyl ether #(I) | 4016-14-2 | 400.00 | 2.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 547 | Methyldichlorosilane-R* | 75-54-7 | 1200.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 548 | Vinyltrichlorosilane-R* | 75-94-5 | 2000.00 | 1.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 549 | Vinyl fluoride-T3* | 75-02-5 | 150000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 550 | Magnesium phosphide- Rentokil MSDS* | 12057-74-8 | 2.40 | 4.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 1.00 |
| 551 | Vinyl methyl ether-R* | 107-25-5 | 64000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 5.00 |
| 552 | Methoxyflurane #(IDLH of halgenated ethers-general) | 76-38-0 | 2000.00 | 1.00 | 0.00 | 5.00 | 2.00 | 2.50 | 3.75 | 1.00 |
| 553 | Acetyl Iodide (as acetyl bromide) T3 | 507-02-8 | 20.00 | 3.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 554 | Vinyl ethyl ether-T3* | 109-92-2 | 1500.00 | 1.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 555 | Isoprene-T3* | 78-79-5 | 25000.00 | 0.00 | 2.00 | 2.50 | 4.00 | 0.00 | 1.25 | 2.50 |
| 556 | 1,1-Dichloroethane #(T3) | 75-34-3 | 3000.00 | 0.00 | 0.00 | 5.00 | 3.00 | 1.25 | 3.13 | 2.50 |
| 557 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 18810-58-7 | 1.38 | 4.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 558 | Ethyl acetylene (as ethylene) | 107-00-6 | 15000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 5.00 |
| 559 | 2-Chloropropylene T3 | 557-98-2 | 35000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 560 | Trinitrochlorobenzene-T3* | 88-88-0 | 24.69 | 3.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 1.00 |
| 561 | Methyl acetylene #(T3) | 74-99-7 | 1700.00 | 1.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |
| 562 | Ammonium Picrate T3 | 131-74-8 | 24.83 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 563 | HMX T3 | 2691-41-0 | 41.28 | 3.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 1.00 |
| 564 | 1-Chloropropylene R | 590-21-6 | 8000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 565 | 1-pentene-T3* | 109-67-1 | 30000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 566 | 2-Methyl-1-butene-T3* | 563-46-2 | 500000.00 | 0.00 | 1.00 | 3.75 | 4.00 | 0.00 | 1.88 | 2.50 |
| 567 | Diethyldichlorosilane R | 1719-53-5 | 4668.58 | 0.00 | 2.00 | 2.50 | 3.00 | 1.25 | 1.88 | 2.50 |
| 568 | Dinitrophenol, Dry or wet T3 | 25550-58-7 (51-28-5) | 3.32 | 4.00 | 4.00 | 0.00 | 4.00 | 0.00 | 0.00 | 1.00 |
| 569 | n-Propyl nitrate #(T3) | 627-13-4 | 1160.00 | 1.00 | 3.00 | 1.25 | 3.00 | 1.25 | 1.25 | 2.50 |
| 570 | Vinyl acetylene-R* | 689-97-4 | 105000.00 | 0.00 | 3.00 | 1.25 | 4.00 | 0.00 | 0.63 | 2.50 |

| Rank | Chemical | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | |
| 541 | Coniline (R-2-ethylpiperidine) #(T3 as piperidine) | 7.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 |
| 542 | 1,2-Dichloroethylene #(T3) | 6.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 7.38 |
| 543 | 1-Chloro-1-nitropropane #(I) | 7.38 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.38 |
| 544 | 1-Nitropropane #(I) | 6.38 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 7.38 |
| 545 | Ethyl mercaptan | 6.38 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 7.38 |
| 546 | Isopropyl glycidyl ether #(I) | 6.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 7.38 |
| 547 | Methyldichlorosilane-R* | 5.38 | 2.00 | 0.00 | 9.00 | 2.00 | 2.00 | 7.38 |
| 548 | Vinyltrichlorosilane-R* | 5.38 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 7.38 |
| 549 | Vinyl fluoride-T3* | 6.25 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 7.25 |
| 550 | Magnesium phosphide- Rentokil MSDS* | 6.25 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 7.25 |
| 551 | Vinyl methyl ether-R* | 6.25 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 7.25 |
| 552 | Methoxyflurane #(IDLH of halgenated ethers-general) | 5.75 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 6.75 |
| 553 | Acetyl Iodide (as acetyl bromide) T3 | 6.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.75 |
| 554 | Vinyl ethyl ether-T3* | 4.75 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 6.75 |
| 555 | Isoprene-T3* | 3.75 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 6.75 |
| 556 | 1,1-Dichloroethane #(T3) | 5.63 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 6.63 |
| 557 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 5.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 6.63 |
| 558 | Ethyl acetylene (as ethylene) | 5.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 6.63 |
| 559 | 2-Chloropropylene T3 | 4.38 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 6.38 |
| 560 | Trinitrochlorobenzene-T3* | 5.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 6.25 |
| 561 | Methyl acetylene #(T3) | 4.13 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 6.13 |
| 562 | Ammonium Picrate T3 | 4.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 5.63 |
| 563 | HMX T3 | 4.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 5.63 |
| 564 | 1-Chloropropylene R | 4.38 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 5.38 |
| 565 | 1-pentene-T3* | 4.38 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 5.38 |
| 566 | 2-Methyl-1-butene-T3* | 4.38 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 5.38 |
| 567 | Diethyldichlorosilane R | 4.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 5.38 |
| 568 | Dinitrophenol, Dry or wet T3 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 569 | n-Propyl nitrate #(T3) | 4.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.75 |
| 570 | Vinyl acetylene-R* | 3.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 4.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Chlorine | 7782-50-5 | 20.00 | 3.00 | 5.00 | 7600.00 | 2.49 | 0.87 | 330.84 |
| 2 | Ammonia | 7664-41-7 | 1100.00 | 1.00 | 4.38 | 4802.00 | 1.20 | 0.42 | 1.83 |
| 3 | Hydrogen chloride | 7647-01-0 | 100.00 | 3.00 | 4.38 | 32452.00 | 3.50 | 1.22 | 397.14 |
| 4 | Calcium Carbonate #(T3) | 471-34-1 | 3.66 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5 | Hydrogen fluoride | 7664-39-3 | 44.00 | 3.00 | 4.38 | 783.00 | 3.50 | 1.22 | 21.78 |
| 6 | Calcium chloride | 10043-52-4 | 88.19 | 3.00 | 5.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 7 | Ammonium Chloride | 12125-02-9 | 228.00 | 2.00 | 4.38 | 1.00 | 1.90 | 0.66 | 0.00 |
| 8 | Sulfuric acid | 7664-93-9 | 7.47 | 4.00 | 3.75 | 1.00 | 3.40 | 1.19 | 0.16 |
| 9 | Sodium Sulfate #(T3) | 7757-82-6 | 21.52 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | Silica #(T3) | 7631-86-9 | 203.72 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11 | Sodium bicarbonate #(T3) | 144-55-8 | 145.00 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | Sodium hydroxide #(E3) | 1310-73-2 | 30.56 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 13 | Calcium Hydroxide #(T3) | 1305-62-0 | 165.00 | 2.00 | 4.38 | 0.00 | 2.50 | 0.87 | 0.00 |
| 14 | Copper sulfate #(T3) | 7758-98-7 | 3.92 | 4.00 | 5.00 | 7.30 | 0.00 | 0.00 | 0.00 |
| 15 | Nitric acid | 7697-37-2 | 92.00 | 3.00 | 5.00 | 48.00 | 2.17 | 0.76 | 0.40 |
| 16 | Dibasic sodium phosphate | 10039-32-4 | 25.83 | 3.00 | 5.00 | 0.00 | 4.90 | 1.71 | 0.00 |
| 17 | Magnesium Oxide #(T3) | 1309-48-4 | 303.35 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | Formaldehyde (Formalin solution-37% | 50-00-0 | 25.00 | 3.00 | 3.75 | 761.00 | 1.00 | 0.35 | 10.64 |
| 19 | Arsenic Trioxide | 1327-53-3 | 1.12 | 4.00 | 5.00 | 66.10 | 0.00 | 0.00 | 0.00 |
| 20 | Mercury | 7439-97-6 | 1.08 | 4.00 | 5.00 | 0.00 | 7.00 | 2.45 | 0.00 |
| 21 | Sulfur dioxide | 7446-09-5 | 30.00 | 3.00 | 5.00 | 2432.00 | 2.26 | 0.79 | 64.06 |
| 22 | Phosphoric acid *#(T3) | 7664-38-2 | 124.70 | 2.00 | 5.00 | 0.03 | 3.40 | 1.19 | 0.00 |
| 23 | Ethyl alcohol #(T3) | 64-17-5 | 3300.00 | 0.00 | 3.13 | 40.00 | 1.59 | 0.56 | 0.01 |
| 24 | Sodium cyanide #(T3) | 143-33-9 | 19.96 | 3.00 | 5.00 | 1.00 | 1.70 | 0.59 | 0.03 |
| 25 | Sodium chloride #(T3) | 7647-14-5 | 209.19 | 2.00 | 5.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| 26 | Cobalt dichloride #(T3) | 7646-79-9 | 51.39 | 3.00 | 5.00 | 40.00 | 4.50 | 1.57 | 1.22 |
| 27 | Sodium Nitrate #(T3) | 7631-99-4 | 28.77 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 28 | Acetic acid #(T3) | 64-19-7 | 250.00 | 2.00 | 3.75 | 11.40 | 2.07 | 0.72 | 0.03 |
| 29 | Hydrogen cyanide | 74-90-8 | 15.00 | 3.00 | 1.25 | 620.00 | 0.95 | 0.33 | 13.69 |
| 30 | Ammonium nitrate, no organic coating T3 | 6484-52-2 | 152.73 | 2.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 31 | Ammonium nitrate, with organic coating | 6484-52-2 | 152.73 | 2.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 |
| 32 | Methomyl | 16752-77-5 | 30.13 | 3.00 | 5.00 | 0.00 | 1.29 | 0.45 | 0.00 |
| 33 | Gypsum #(T3 as K2CO3) | 13397-24-5 | 88.39 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34 | Hydrogen bromide | 10035-10-6 | 120.00 | 2.00 | 5.00 | 15200.00 | 3.50 | 1.22 | 155.01 |
| 35 | Phosgene | 75-44-5 | 0.75 | 5.00 | 4.38 | 1215.00 | 3.40 | 1.19 | 1925.87 |
| 36 | Benzene | 71-43-2 | 4000.00 | 0.00 | 3.13 | 76.00 | 2.77 | 0.97 | 0.02 |
| 37 | Methyl alcohol | 67-56-1 | 7200.00 | 0.00 | 3.13 | 100.00 | 1.11 | 0.39 | 0.01 |
| 38 | Toluene | 108-88-3 | 4500.00 | 0.00 | 3.13 | 20.00 | 3.14 | 1.10 | 0.00 |
| 39 | Acetylene *T3 | 74-86-2 | 6000.00 | 0.00 | 0.63 | 33591.99 | 0.90 | 0.31 | 1.76 |
| 40 | Chlorpyrifos #(T3) | 2921-88-2 | 5.23 | 4.00 | 5.00 | 0.00 | 12.09 | 4.23 | 0.00 |
| 41 | Zinc | 7440-66-6 | 74.79 | 3.00 | 5.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| 42 | Sodium dodecyl sulfate #(T3) | 151-21-3 | 42.39 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 43 | Isobutane-T3* | 75-28-5 | 15000.00 | 0.00 | 2.50 | 2356.00 | 2.00 | 0.70 | 0.11 |
| 44 | Hydrogen T3 | 1333-74-0 | 500000.00 | 0.00 | 2.50 | 8517.24 | 0.07 | 0.02 | 0.00 |
| 45 | Sodium chlorate | 7775-09-9 | 17.22 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46 | Lindane * #(T3) | 58-89-9 | 4.20 | 4.00 | 5.00 | 0.00 | 1.10 | 0.38 | 0.00 |
| 47 | Nitric oxide #(I) | 10102-43-9 | 20.00 | 3.00 | 5.00 | 26000.00 | 1.04 | 0.36 | 472.73 |
| 48 | Bromine | 7726-95-6 | 8.50 | 4.00 | 5.00 | 172.00 | 2.40 | 0.84 | 16.98 |
| 49 | Potassium dichromate #(T3) | 7778-50-9 | 3.32 | 4.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 3.00 | 8.00 | 63.00 | 5.00 | 344.00 | 5.00 | 10.00 | 5.00 | 23.00 |
| 2 | Ammonia | 2.00 | 6.38 | 56.00 | 5.00 | 348.00 | 5.00 | 10.00 | 5.00 | 21.38 |
| 3 | Hydrogen chloride | 3.00 | 7.38 | 63.00 | 5.00 | 528.00 | 5.00 | 10.00 | 0.50 | 17.88 |
| 4 | Calcium Carbonate #(T3) | 0.00 | 5.00 | 52.00 | 5.00 | 309.00 | 5.00 | 10.00 | 2.50 | 17.50 |
| 5 | Hydrogen fluoride | 3.00 | 7.38 | 25.00 | 2.00 | 138.00 | 5.00 | 7.00 | 2.50 | 16.88 |
| 6 | Calcium chloride | 0.00 | 5.00 | 43.00 | 4.00 | 208.00 | 5.00 | 9.00 | 2.50 | 16.50 |
| 7 | Ammonium Chloride | 0.00 | 4.38 | 25.00 | 2.00 | 141.00 | 5.00 | 7.00 | 5.00 | 16.38 |
| 8 | Sulfuric acid | 0.00 | 3.75 | 66.00 | 5.00 | 544.00 | 5.00 | 10.00 | 2.50 | 16.25 |
| 9 | Sodium Sulfate #(T3) | 0.00 | 5.00 | 36.00 | 3.00 | 200.00 | 5.00 | 8.00 | 2.50 | 15.50 |
| 10 | Silica #(T3) | 0.00 | 5.00 | 30.00 | 3.00 | 131.00 | 5.00 | 8.00 | 2.50 | 15.50 |
| 11 | Sodium bicarbonate #(T3) | 0.00 | 5.00 | 30.00 | 3.00 | 138.00 | 5.00 | 8.00 | 2.50 | 15.50 |
| 12 | Sodium hydroxide #(E3) | 0.00 | 4.38 | 64.00 | 5.00 | 477.00 | 5.00 | 10.00 | 0.50 | 14.88 |
| 13 | Calcium Hydroxide #(T3) | 0.00 | 4.38 | 38.00 | 3.00 | 144.00 | 5.00 | 8.00 | 2.50 | 14.88 |
| 14 | Copper sulfate #(T3) | 0.00 | 5.00 | 29.00 | 2.00 | 188.00 | 5.00 | 7.00 | 2.50 | 14.50 |
| 15 | Nitric acid | 0.00 | 5.00 | 49.00 | 4.00 | 226.00 | 5.00 | 9.00 | 0.50 | 14.50 |
| 16 | Dibasic sodium phosphate | 0.00 | 5.00 | 22.00 | 2.00 | 125.00 | 5.00 | 7.00 | 2.50 | 14.50 |
| 17 | Magnesium Oxide #(T3) | 0.00 | 5.00 | 28.00 | 2.00 | 134.00 | 5.00 | 7.00 | 2.50 | 14.50 |
| 18 | Formaldehyde (Formalin solution-37% | 3.00 | 6.75 | 53.00 | 5.00 | 260.00 | 5.00 | 10.00 | 0.50 | 17.25 |
| 19 | Arsenic Trioxide | 0.00 | 5.00 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 5.00 | 14.00 |
| 20 | Mercury | 0.00 | 5.00 | 14.00 | 1.00 | 24.00 | 3.00 | 4.00 | 5.00 | 14.00 |
| 21 | Sulfur dioxide | 3.00 | 8.00 | 27.00 | 2.00 | 79.00 | 4.00 | 6.00 | 0.00 | 14.00 |
| 22 | Phosphoric acid *#(T3) | 0.00 | 5.00 | 49.00 | 4.00 | 245.00 | 5.00 | 9.00 | 0.00 | 14.00 |
| 23 | Ethyl alcohol #(T3) | 0.00 | 3.13 | 51.00 | 5.00 | 321.00 | 5.00 | 10.00 | 0.50 | 13.63 |
| 24 | Sodium cyanide #(T3) | 0.00 | 5.00 | 21.00 | 2.00 | 52.00 | 4.00 | 6.00 | 2.50 | 13.50 |
| 25 | Sodium chloride #(T3) | 0.00 | 5.00 | 38.00 | 3.00 | 175.00 | 5.00 | 8.00 | 0.50 | 13.50 |
| 26 | Cobalt dichloride #(T3) | 2.00 | 7.00 | 22.00 | 2.00 | 90.00 | 4.00 | 6.00 | 0.50 | 13.50 |
| 27 | Sodium Nitrate #(T3) | 0.00 | 3.75 | 23.00 | 2.00 | 124.00 | 5.00 | 7.00 | 2.50 | 13.25 |
| 28 | Acetic acid #(T3) | 0.00 | 3.75 | 40.00 | 4.00 | 186.00 | 5.00 | 9.00 | 0.50 | 13.25 |
| 29 | Hydrogen cyanide | 3.00 | 4.25 | 13.00 | 1.00 | 25.00 | 3.00 | 4.00 | 5.00 | 13.25 |
| 30 | Ammonium nitrate, no organic coating T3 | 0.00 | 3.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 13.13 |
| 31 | Ammonium nitrate, with organic coating | 0.00 | 3.13 | 52.00 | 5.00 | 182.00 | 5.00 | 10.00 | 0.00 | 13.13 |
| 32 | Methomyl | 0.00 | 5.00 | 9.00 | 0.00 | 46.00 | 3.00 | 3.00 | 5.00 | 13.00 |
| 33 | Gypsum #(T3 as K2CO3) | 0.00 | 5.00 | 36.00 | 3.00 | 127.00 | 5.00 | 8.00 | 0.00 | 13.00 |
| 34 | Hydrogen bromide | 3.00 | 8.00 | 16.00 | 1.00 | 73.00 | 4.00 | 5.00 | 0.00 | 13.00 |
| 35 | Phosgene | 4.00 | 8.38 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 12.88 |
| 36 | Benzene | 0.00 | 3.13 | 42.00 | 4.00 | 291.00 | 5.00 | 9.00 | 0.50 | 12.63 |
| 37 | Methyl alcohol | 0.00 | 3.13 | 47.00 | 4.00 | 268.00 | 5.00 | 9.00 | 0.50 | 12.63 |
| 38 | Toluene | 0.00 | 3.13 | 40.00 | 4.00 | 237.00 | 5.00 | 9.00 | 0.50 | 12.63 |
| 39 | Acetylene *T3 | 2.00 | 2.63 | 93.00 | 5.00 | 253.00 | 5.00 | 10.00 | 0.00 | 12.63 |
| 40 | Chlorpyrifos #(T3) | 0.00 | 5.00 | 17.00 | 1.00 | 71.00 | 4.00 | 5.00 | 2.50 | 12.50 |
| 41 | Zinc | 0.00 | 5.00 | 31.00 | 3.00 | 90.00 | 4.00 | 7.00 | 0.50 | 12.50 |
| 42 | Sodium dodecyl sulfate #(T3) | 0.00 | 5.00 | 27.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.50 | 12.50 |
| 43 | Isobutane-T3* | 0.00 | 2.50 | 68.00 | 5.00 | 409.00 | 5.00 | 10.00 | 0.00 | 12.50 |
| 44 | Hydrogen T3 | 0.00 | 2.50 | 70.00 | 5.00 | 340.00 | 5.00 | 10.00 | 0.00 | 12.50 |
| 45 | Sodium chlorate | 0.00 | 3.75 | 20.00 | 2.00 | 59.00 | 4.00 | 6.00 | 2.50 | 12.25 |
| 46 | Lindane * #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 9.00 | 2.00 | 2.00 | 5.00 | 12.00 |
| 47 | Nitric oxide #(I) | 3.00 | 8.00 | 11.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 48 | Bromine | 3.00 | 8.00 | 12.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 12.00 |
| 49 | Potassium dichromate #(T3) | 0.00 | 4.38 | 17.00 | 1.00 | 69.00 | 4.00 | 5.00 | 2.50 | 11.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 50 | Diethylene glycol | 111-46-6 | 100.00 | 3.00 | 4.38 | 0.01 | 3.66 | 1.28 | 0.00 |
| 51 | Potassium Hydroxide #(T3) | 1310-58-3 | 65.36 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 52 | Potassium nitrate #(T3) | 7757-79-1 | 120.91 | 2.00 | 4.38 | 0.00 | 3.00 | 1.05 | 0.00 |
| 53 | Propylene-T3* | 115-07-1 | 500000.00 | 0.00 | 1.88 | 8480.00 | 1.46 | 0.51 | 0.01 |
| 54 | Kerosene #(T3) | 8008-20-6 | 57.53 | 3.00 | 3.75 | 0.50 | 4.50 | 1.57 | 0.01 |
| 55 | Phosphorus trichloride | 7719-12-2 | 5.60 | 4.00 | 3.75 | 100.00 | 4.75 | 1.66 | 29.66 |
| 56 | Hydrogen peroxide #(E3) | 7722-84-1 | 100.00 | 3.00 | 3.13 | 25.00 | 1.17 | 0.41 | 0.10 |
| 57 | Ethyl acetate #(T3) | 141-78-6 | 2000.00 | 1.00 | 3.13 | 73.00 | 3.04 | 1.06 | 0.04 |
| 58 | Isopropyl alcohol #(T3) | 67-63-0 | 2000.00 | 1.00 | 3.13 | 33.00 | 2.07 | 0.72 | 0.01 |
| 59 | Isobutyl alcohol #(T3) | 78-83-1 | 1600.00 | 1.00 | 3.13 | 9.00 | 2.55 | 0.89 | 0.01 |
| 60 | Potassium ferrocyanide #(T3) | 13943-58-3 | 3.42 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61 | Chloroacetyl chloride E3 | 79-04-9 | 10.00 | 4.00 | 2.50 | 19.00 | 3.90 | 1.36 | 2.59 |
| 62 | Lead Oxide (#T3) | 1309-60-0 | 10.22 | 3.00 | 5.00 | 0.00 | 8.20 | 2.87 | 0.00 |
| 63 | Potassium cyanide #(T3) | 151-50-8 | 22.53 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 64 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 7778-53-2 | 89.84 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | Propane | 74-98-6 | 33000.00 | 0.00 | 2.50 | 6400.00 | 1.55 | 0.54 | 0.11 |
| 66 | Chloroform | 67-66-3 | 3200.00 | 0.00 | 5.00 | 160.00 | 4.12 | 1.44 | 0.07 |
| 67 | Iron oxide #(T3) | 1309-37-1 | 76.55 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 68 | Boron trifluoride * | 7637-07-2 | 39.66 | 3.00 | 4.38 | 653.90 | 2.40 | 0.84 | 13.84 |
| 69 | Phosphoryl Trichloride | 10025-87-3 | 0.85 | 5.00 | 3.75 | 40.00 | 5.30 | 1.85 | 87.21 |
| 70 | Aniline | 62-53-3 | 20.00 | 3.00 | 3.75 | 0.67 | 3.22 | 1.13 | 0.04 |
| 71 | Phenol #(E3) | 108-95-2 | 200.00 | 2.00 | 3.75 | 0.20 | 3.24 | 1.13 | 0.00 |
| 72 | Paracetamol #(E3-phenol) | 103-90-2 | 200.00 | 2.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 73 | Acetone | 67-64-1 | 5700.00 | 0.00 | 3.13 | 180.00 | 2.00 | 0.70 | 0.02 |
| 74 | n-Butyl acetate #(E3) | 123-86-4 | 3000.00 | 0.00 | 3.13 | 10.00 | 4.00 | 1.40 | 0.00 |
| 75 | Selenium hexafluoride | 7783-79-1 | 0.26 | 5.00 | 5.00 | 541000.00 | 3.25 | 1.14 | 2364510.49 |
| 76 | Silver nitrate #(T3) | 7761-88-8 | 2.17 | 4.00 | 4.38 | 0.00 | 4.40 | 1.54 | 0.00 |
| 77 | Mercuric nitrate | 10045-94-0 | 1.07 | 4.00 | 4.38 | 18.00 | 11.00 | 3.85 | 64.70 |
| 78 | Lead nitrate | 10099-74-8 | 11.07 | 3.00 | 4.38 | 0.00 | 11.00 | 3.85 | 0.00 |
| 79 | Magnesium (powder)-T3* | 7439-95-4 | 251.49 | 2.00 | 1.88 | 1.00 | 6.00 | 2.10 | 0.01 |
| 80 | Methyl iodide #(E3) | 74-88-4 | 125.00 | 2.00 | 4.38 | 375.00 | 4.89 | 1.71 | 5.13 |
| 81 | Methyl bromide | 74-83-9 | 200.00 | 2.00 | 4.38 | 1420.00 | 3.27 | 1.14 | 8.12 |
| 82 | Methylene chloride | 75-09-2 | 6900.00 | 0.00 | 4.38 | 440.00 | 2.93 | 1.02 | 0.07 |
| 83 | Naphthalene #(T3) | 91-20-3 | 250.00 | 2.00 | 3.75 | 0.05 | 4.42 | 1.55 | 0.00 |
| 84 | Nitrobenzene #(T3) | 98-95-3 | 200.00 | 2.00 | 3.13 | 0.15 | 4.30 | 1.50 | 0.00 |
| 85 | Iodine #(E3) | 7553-56-2 | 5.00 | 4.00 | 5.00 | 0.30 | 8.80 | 3.08 | 0.18 |
| 86 | Mercuric chloride #(T3 of Hg) | 7487-94-7 | 1.08 | 4.00 | 5.00 | 0.00 | 8.70 | 3.04 | 0.00 |
| 87 | Carbendazim | 10605-21-7 | 3.25 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 88 | Sodium fluoride #(T3) | 7681-49-4 | 43.76 | 3.00 | 5.00 | 1.00 | 1.45 | 0.51 | 0.01 |
| 89 | Copper oxychloride #(E3) | 1332-40-7 | 100.00 | 3.00 | 5.00 | 1.30 | 0.00 | 0.00 | 0.00 |
| 90 | Nitrogen dioxide | 10102-44-0 | 20.00 | 3.00 | 5.00 | 720.00 | 1.58 | 0.55 | 19.89 |
| 91 | Aluminum (powder) *T3 | 7429-90-5 | 226.54 | 2.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 92 | Potassium fluoride #(T3) | 7789-23-3 | 210.38 | 2.00 | 5.00 | 0.00 | 2.00 | 0.70 | 0.00 |
| 93 | Cypermethrin #(I as in pyrethrum) | 52315-07-8 | 293.87 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 94 | Dibutyl phthalate *#(T3) | 84-74-2 | 43.90 | 3.00 | 4.38 | 1.00 | 9.60 | 3.36 | 0.08 |
| 95 | Oxalic acid * #(T3) | 144-62-7 | 135.77 | 2.00 | 4.38 | 0.00 | 4.30 | 1.50 | 0.00 |
| 96 | Tributyl phosphate #(T3) | 126-73-8 | 30.00 | 3.00 | 4.38 | 13.70 | 9.20 | 3.22 | 1.47 |
| 97 | Xylenes #(T3) | 95-47-6 | 900.00 | 2.00 | 3.13 | 10.00 | 3.66 | 1.28 | 0.01 |
| 98 | n-Butyl alcohol #(T3) | 71-36-3 | 1400.00 | 1.00 | 3.13 | 4.00 | 2.60 | 0.91 | 0.00 |
| 99 | Thiram * #(T3) | 137-26-8 | 10.20 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 50 | Diethylene glycol | 0.00 | 4.38 | 30.00 | 3.00 | 94.00 | 4.00 | 7.00 | 0.50 | 11.88 |
| 51 | Potassium Hydroxide #(T3) | 0.00 | 4.38 | 24.00 | 2.00 | 107.00 | 5.00 | 7.00 | 0.50 | 11.88 |
| 52 | Potassium nitrate #(T3) | 0.00 | 4.38 | 24.00 | 2.00 | 117.00 | 5.00 | 7.00 | 0.50 | 11.88 |
| 53 | Propylene-T3* | 0.00 | 1.88 | 52.00 | 5.00 | 211.00 | 5.00 | 10.00 | 0.00 | 11.88 |
| 54 | Kerosene #(T3) | 0.00 | 3.75 | 35.00 | 3.00 | 102.00 | 5.00 | 8.00 | 0.00 | 11.75 |
| 55 | Phosphorus trichloride | 3.00 | 6.75 | 11.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.00 | 11.75 |
| 56 | Hydrogen peroxide #(E3) | 0.00 | 3.13 | 38.00 | 3.00 | 172.00 | 5.00 | 8.00 | 0.50 | 11.63 |
| 57 | Ethyl acetate #(T3) | 0.00 | 3.13 | 30.00 | 3.00 | 139.00 | 5.00 | 8.00 | 0.50 | 11.63 |
| 58 | Isopropyl alcohol #(T3) | 0.00 | 3.13 | 24.00 | 2.00 | 90.00 | 4.00 | 6.00 | 2.50 | 11.63 |
| 59 | Isobutyl alcohol #(T3) | 0.00 | 3.13 | 27.00 | 2.00 | 80.00 | 4.00 | 6.00 | 2.50 | 11.63 |
| 60 | Potassium ferrocyanide #(T3) | 0.00 | 5.00 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 2.50 | 11.50 |
| 61 | Chloroacetyl chloride E3 | 2.00 | 4.50 | 25.00 | 2.00 | 179.00 | 5.00 | 7.00 | 0.00 | 11.50 |
| 62 | Lead Oxide (#T3) | 0.00 | 5.00 | 10.00 | 1.00 | 20.00 | 3.00 | 4.00 | 2.50 | 11.50 |
| 63 | Potassium cyanide #(T3) | 0.00 | 5.00 | 14.00 | 1.00 | 23.00 | 3.00 | 4.00 | 2.50 | 11.50 |
| 64 | Potassium orthophosphate #(T3 based on strontium orthophosphate) | 0.00 | 5.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 2.50 | 11.50 |
| 65 | Propane | 0.00 | 2.50 | 42.00 | 4.00 | 142.00 | 5.00 | 9.00 | 0.00 | 11.50 |
| 66 | Chloroform | 0.00 | 5.00 | 20.00 | 2.00 | 81.00 | 4.00 | 6.00 | 0.50 | 11.50 |
| 67 | Iron oxide #(T3) | 0.00 | 4.38 | 27.00 | 2.00 | 141.00 | 5.00 | 7.00 | 0.00 | 11.38 |
| 68 | Boron trifluoride * | 3.00 | 7.38 | 11.00 | 1.00 | 28.00 | 3.00 | 4.00 | 0.00 | 11.38 |
| 69 | Phosphoryl Trichloride | 3.00 | 6.75 | 14.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 11.25 |
| 70 | Aniline | 0.00 | 3.75 | 16.00 | 1.00 | 64.00 | 4.00 | 5.00 | 2.50 | 11.25 |
| 71 | Phenol #(E3) | 0.00 | 3.75 | 26.00 | 2.00 | 129.00 | 5.00 | 7.00 | 0.50 | 11.25 |
| 72 | Paracetamol #(E3-phenol) | 0.00 | 3.75 | 23.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.50 | 11.25 |
| 73 | Acetone | 0.00 | 3.13 | 30.00 | 3.00 | 146.00 | 5.00 | 8.00 | 0.00 | 11.13 |
| 74 | n-Butyl acetate #(E3) | 0.00 | 3.13 | 30.00 | 3.00 | 124.00 | 5.00 | 8.00 | 0.00 | 11.13 |
| 75 | Selenium hexafluoride | 5.00 | 10.00 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 11.00 |
| 76 | Silver nitrate #(T3) | 0.00 | 4.38 | 22.00 | 2.00 | 80.00 | 4.00 | 6.00 | 0.50 | 10.88 |
| 77 | Mercuric nitrate | 3.00 | 7.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 10.88 |
| 78 | Lead nitrate | 0.00 | 4.38 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 2.50 | 10.88 |
| 79 | Magnesium (powder)-T3* | 0.00 | 1.88 | 42.00 | 4.00 | 423.00 | 5.00 | 9.00 | 0.00 | 10.88 |
| 80 | Methyl iodide #(E3) | 2.00 | 6.38 | 10.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.50 | 10.88 |
| 81 | Methyl bromide | 2.00 | 6.38 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 10.88 |
| 82 | Methylene chloride | 0.00 | 4.38 | 21.00 | 2.00 | 83.00 | 4.00 | 6.00 | 0.50 | 10.88 |
| 83 | Naphthalene #(T3) | 0.00 | 3.75 | 25.00 | 2.00 | 103.00 | 5.00 | 7.00 | 0.00 | 10.75 |
| 84 | Nitrobenzene #(T3) | 0.00 | 3.13 | 12.00 | 1.00 | 55.00 | 4.00 | 5.00 | 2.50 | 10.63 |
| 85 | Iodine #(E3) | 0.00 | 5.00 | 19.00 | 1.00 | 80.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 86 | Mercuric chloride #(T3 of Hg) | 0.00 | 5.00 | 9.00 | 0.00 | 21.00 | 3.00 | 3.00 | 2.50 | 10.50 |
| 87 | Carbendazim | 0.00 | 5.00 | 16.00 | 1.00 | 62.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 88 | Sodium fluoride #(T3) | 0.00 | 5.00 | 16.00 | 1.00 | 85.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 89 | Copper oxychloride #(E3) | 0.00 | 5.00 | 21.00 | 2.00 | 41.00 | 3.00 | 5.00 | 0.50 | 10.50 |
| 90 | Nitrogen dioxide | 3.00 | 8.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 10.50 |
| 91 | Aluminum (powder) *T3 | 0.00 | 2.50 | 39.00 | 3.00 | 520.00 | 5.00 | 8.00 | 0.00 | 10.50 |
| 92 | Potassium fluoride #(T3) | 0.00 | 5.00 | 14.00 | 1.00 | 82.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 93 | Cypermethrin #(I as in pyrethrum) | 0.00 | 5.00 | 15.00 | 1.00 | 89.00 | 4.00 | 5.00 | 0.50 | 10.50 |
| 94 | Dibutyl phthalate *#(T3) | 0.00 | 4.38 | 27.00 | 2.00 | 88.00 | 4.00 | 6.00 | 0.00 | 10.38 |
| 95 | Oxalic acid * #(T3) | 0.00 | 4.38 | 16.00 | 1.00 | 106.00 | 5.00 | 6.00 | 0.00 | 10.38 |
| 96 | Tributyl phosphate #(T3) | 2.00 | 6.38 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 10.38 |
| 97 | Xylenes #(T3) | 0.00 | 3.13 | 32.00 | 3.00 | 76.00 | 4.00 | 7.00 | 0.00 | 10.13 |
| 98 | n-Butyl alcohol #(T3) | 0.00 | 3.13 | 26.00 | 2.00 | 106.00 | 5.00 | 7.00 | 0.00 | 10.13 |
| 99 | Thiram * #(T3) | 0.00 | 5.00 | 17.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.00 | 10.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 100 | Hydrogen sulfide | 7783-06-4 | 50.00 | 3.00 | 2.50 | 6536.00 | 2.12 | 0.74 | 96.90 |
| 101 | Carbon monoxide/Syngas | 1333-74-0 | 500000.00 | 0.00 | 2.50 | 26600.00 | 0.07 | 0.02 | 0.00 |
| 102 | Barium nitrate *T3 | 10022-31-8 | 7.02 | 4.00 | 4.38 | 0.00 | 9.00 | 3.15 | 0.00 |
| 103 | Tetrafluoroboric acid #(T3) | 16872-11-0 | 11.14 | 3.00 | 4.38 | 7.00 | 3.00 | 1.05 | 0.66 |
| 104 | Dichlorvos | 62-73-7 | 100.00 | 3.00 | 4.38 | 0.01 | 0.00 | 0.00 | 0.00 |
| 105 | Ammonium persulfate *T3 | 7727-54-0 | 10.71 | 3.00 | 4.38 | 0.00 | 1.60 | 0.56 | 0.00 |
| 106 | Cobalt (II) nitrate | 10141-05-6 | 12.60 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 107 | Potassium permanganate #(T3) | 7722-64-7 | 19.34 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | Trichloroethylene | 79-01-6 | 3800.00 | 0.00 | 4.38 | 60.00 | 4.53 | 1.58 | 0.03 |
| 109 | Formic acid #(T3) | 64-18-6 | 30.00 | 3.00 | 3.75 | 35.00 | 1.60 | 0.56 | 0.65 |
| 110 | Ethanolamine #(T3) | 141-43-5 | 30.00 | 3.00 | 3.75 | 0.40 | 2.10 | 0.73 | 0.01 |
| 111 | Silicon tetrafluoride-T3* | 7783-61-1 | 100.00 | 3.00 | 3.75 | 26400.00 | 3.63 | 1.27 | 335.08 |
| 112 | Sodium sulfide #(T3) | 1313-82-2 | 23.51 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 113 | Cyclohexanone #(T3) | 108-94-1 | 700.00 | 2.00 | 3.75 | 5.20 | 3.40 | 1.19 | 0.01 |
| 114 | Hexafluoroacetone E3 | 684-16-2 | 50.00 | 3.00 | 3.75 | 4408.00 | 1.65 | 0.58 | 50.86 |
| 115 | Tungsten hexafluoride-T3* | 7783-82-6 | 32.84 | 3.00 | 3.75 | 863.00 | 10.60 | 3.71 | 97.40 |
| 116 | Titanium tetrachloride-E3* | 7550-45-0 | 12.89 | 3.00 | 3.75 | 9.60 | 4.90 | 1.71 | 1.28 |
| 117 | Sulfuryl chloride-T3* | 7791-25-5 | 15.00 | 3.00 | 3.75 | 99.76 | 4.70 | 1.64 | 10.93 |
| 118 | Hydrogen iodide T3 | 10034-85-2 | 120.00 | 2.00 | 3.75 | 5673.13 | 4.50 | 1.57 | 74.39 |
| 119 | Cyclohexane #(T3) | 110-82-7 | 1300.00 | 1.00 | 3.13 | 95.00 | 2.90 | 1.01 | 0.07 |
| 120 | Ethylene oxide | 75-21-8 | 200.00 | 2.00 | 0.63 | 1095.00 | 1.49 | 0.52 | 2.85 |
| 121 | Tetrahydrofuran #(T3) | 109-99-9 | 5000.00 | 0.00 | 3.13 | 145.00 | 2.50 | 0.87 | 0.03 |
| 122 | OMPA | 152-16-9 | 0.30 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | Cadmium | 7440-43-9 | 1.96 | 4.00 | 5.00 | 1.00 | 3.90 | 1.36 | 0.70 |
| 124 | Endosulfan | 115-29-7 | 2.10 | 4.00 | 5.00 | 0.00 | 14.00 | 4.90 | 0.00 |
| 125 | Dimethoate #(T3) | 60-51-5 | 3.19 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | Chlorine dioxide | 10049-04-4 | 2.40 | 4.00 | 2.50 | 720.00 | 2.40 | 0.84 | 251.75 |
| 127 | Red mercuric oxide | 21908-53-2 | 1.08 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 128 | Molybdophosphoric acid | 51429-74-4 | 37.05 | 3.00 | 5.00 | 4.00 | 0.00 | 0.00 | 0.00 |
| 129 | Cyanogen Chloride | 460-19-5 | 10.00 | 4.00 | 5.00 | 1000.00 | 2.60 | 0.91 | 90.91 |
| 130 | Metribuzin #(T3 as diazo compound) | 21087-64-9 | 10.98 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 131 | Sodium borate | 12179-04-3 | 32.09 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | Carbon tetrachloride | 56-23-5 | 520.00 | 2.00 | 5.00 | 91.00 | 5.30 | 1.85 | 0.32 |
| 133 | Fluorine | 7782-41-4 | 13.00 | 3.00 | 2.50 | 760.00 | 1.70 | 0.59 | 34.65 |
| 134 | Boron *T3 of B2O3 | 7440-42-8 | 175.00 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | Deltamethrin #(I as in pyrethrum) | 52918-63-5 | 293.87 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 136 | Iron phosphate #(T3 as iron) | 10045-86-0 | 214.47 | 2.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 137 | Butane T3 | 106-97-8 | 19000.00 | 0.00 | 2.50 | 1823.00 | 2.05 | 0.72 | 0.07 |
| 138 | Carbonyl fluoride T3 | 353-50-4 | 20.00 | 3.00 | 4.38 | 42103.99 | 2.76 | 0.97 | 2031.59 |
| 139 | MDEA-R* (N-Methyldiethanolamine) | 105-59-9 | 150.00 | 2.00 | 4.38 | 0.02 | 4.00 | 1.40 | 0.00 |
| 140 | Dimethylformamide | 68-12-2 | 530.00 | 2.00 | 3.75 | 2.70 | 2.51 | 0.88 | 0.00 |
| 141 | 1,3-Butadiene | 106-99-0 | 22000.00 | 0.00 | 1.25 | 1840.00 | 1.87 | 0.65 | 0.05 |
| 142 | Toluene-2,4-diisocyanate | 584-84-9 | 0.51 | 5.00 | 3.13 | 1.00 | 6.00 | 2.10 | 4.11 |
| 143 | Methyl chloroformate-T3* | 79-22-1 | 4.00 | 4.00 | 3.13 | 129.00 | 3.26 | 1.14 | 36.76 |
| 144 | Ethylene dichloride #(E3) | 107-06-2 | 300.00 | 2.00 | 3.13 | 60.00 | 3.40 | 1.19 | 0.24 |
| 145 | Isobutyl acetate #(T3) | 110-19-0 | 1300.00 | 1.00 | 3.13 | 15.00 | 4.00 | 1.40 | 0.02 |
| 146 | Ethyl benzene | 100-41-4 | 1800.00 | 1.00 | 3.13 | 10.00 | 3.66 | 1.28 | 0.01 |
| 147 | n-Hexane | 110-54-3 | 8600.00 | 0.00 | 3.13 | 120.00 | 2.97 | 1.04 | 0.01 |
| 148 | Oleum-E3* | 8014-95-7 | 4.12 | 4.00 | 5.00 | 2.00 | 3.39 | 1.19 | 0.58 |
| 149 | Carbaryl * #(T3) | 63-25-2 | 12.15 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | Malathion * #(T3) | 121-75-5 | 18.50 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 100 | Hydrogen sulfide | 3.00 | 5.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.50 | 10.00 |
| 101 | Carbon monoxide/Syngas | 0.00 | 2.50 | 31.00 | 3.00 | 55.00 | 4.00 | 7.00 | 0.50 | 10.00 |
| 102 | Barium nitrate *T3 | 0.00 | 4.38 | 15.00 | 1.00 | 72.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 103 | Tetrafluoroboric acid #(T3) | 0.00 | 4.38 | 17.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 104 | Dichlorvos | 0.00 | 4.38 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 105 | Ammonium persulfate *T3 | 0.00 | 4.38 | 12.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 106 | Cobalt (II) nitrate | 0.00 | 4.38 | 18.00 | 1.00 | 70.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 107 | Potassium permanganate #(T3) | 0.00 | 4.38 | 16.00 | 1.00 | 57.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 108 | Trichloroethylene | 0.00 | 4.38 | 17.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.50 | 9.88 |
| 109 | Formic acid #(T3) | 0.00 | 3.75 | 26.00 | 2.00 | 84.00 | 4.00 | 6.00 | 0.00 | 9.75 |
| 110 | Ethanolamine #(T3) | 0.00 | 3.75 | 20.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 9.75 |
| 111 | Silicon tetrafluoride-T3* | 3.00 | 6.75 | 9.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 112 | Sodium sulfide #(T3) | 0.00 | 3.75 | 21.00 | 2.00 | 86.00 | 4.00 | 6.00 | 0.00 | 9.75 |
| 113 | Cyclohexanone #(T3) | 0.00 | 3.75 | 25.00 | 2.00 | 72.00 | 4.00 | 6.00 | 0.00 | 9.75 |
| 114 | Hexafluoroacetone E3 | 3.00 | 6.75 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 115 | Tungsten hexafluoride-T3* | 3.00 | 6.75 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 116 | Titanium tetrachloride-E3* | 2.00 | 5.75 | 15.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.75 |
| 117 | Sulfuryl chloride-T3* | 3.00 | 6.75 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 118 | Hydrogen iodide T3 | 3.00 | 6.75 | 2.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 9.75 |
| 119 | Cyclohexane #(T3) | 0.00 | 3.13 | 26.00 | 2.00 | 75.00 | 4.00 | 6.00 | 0.50 | 9.63 |
| 120 | Ethylene oxide | 2.00 | 2.63 | 32.00 | 3.00 | 84.00 | 4.00 | 7.00 | 0.00 | 9.63 |
| 121 | Tetrahydrofuran #(T3) | 0.00 | 3.13 | 21.00 | 2.00 | 65.00 | 4.00 | 6.00 | 0.50 | 9.63 |
| 122 | OMPA | 0.00 | 5.00 | 11.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 123 | Cadmium | 0.00 | 5.00 | 19.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 124 | Endosulfan | 0.00 | 5.00 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 125 | Dimethoate #(T3) | 0.00 | 5.00 | 11.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 126 | Chlorine dioxide | 3.00 | 5.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 127 | Red mercuric oxide | 0.00 | 5.00 | 11.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 128 | Molybdophosphoric acid | 0.00 | 5.00 | 10.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 129 | Cyanogen Chloride | 3.00 | 8.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 9.50 |
| 130 | Metribuzin #(T3 as diazo compound) | 0.00 | 5.00 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 131 | Sodium borate | 0.00 | 5.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 2.50 | 9.50 |
| 132 | Carbon tetrachloride | 0.00 | 5.00 | 16.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 133 | Fluorine | 3.00 | 5.50 | 10.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.00 | 9.50 |
| 134 | Boron *T3 of B2O3 | 0.00 | 5.00 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 135 | Deltamethrin #(I as in pyrethrum) | 0.00 | 5.00 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.50 | 9.50 |
| 136 | Iron phosphate #(T3 as iron) | 0.00 | 5.00 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 2.50 | 9.50 |
| 137 | Butane T3 | 0.00 | 2.50 | 36.00 | 3.00 | 97.00 | 4.00 | 7.00 | 0.00 | 9.50 |
| 138 | Carbonyl fluoride T3 | 4.00 | 8.38 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 9.38 |
| 139 | MDEA-R* (N-Methyldiethanolamine) | 0.00 | 4.38 | 24.00 | 2.00 | 44.00 | 3.00 | 5.00 | 0.00 | 9.38 |
| 140 | Dimethylformamide | 0.00 | 3.75 | 19.00 | 1.00 | 64.00 | 4.00 | 5.00 | 0.50 | 9.25 |
| 141 | 1,3-Butadiene | 0.00 | 1.25 | 31.00 | 3.00 | 111.00 | 5.00 | 8.00 | 0.00 | 9.25 |
| 142 | Toluene-2,4-diisocyanate | 2.00 | 5.13 | 12.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 9.13 |
| 143 | Methyl chloroformate-T3* | 3.00 | 6.13 | 2.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 9.13 |
| 144 | Ethylene dichloride #(E3) | 0.00 | 3.13 | 28.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 9.13 |
| 145 | Isobutyl acetate #(T3) | 0.00 | 3.13 | 21.00 | 2.00 | 56.00 | 4.00 | 6.00 | 0.00 | 9.13 |
| 146 | Ethyl benzene | 0.00 | 3.13 | 21.00 | 2.00 | 51.00 | 4.00 | 6.00 | 0.00 | 9.13 |
| 147 | n-Hexane | 0.00 | 3.13 | 23.00 | 2.00 | 78.00 | 4.00 | 6.00 | 0.00 | 9.13 |
| 148 | Oleum-E3* | 0.00 | 5.00 | 9.00 | 0.00 | 81.00 | 4.00 | 4.00 | 0.00 | 9.00 |
| 149 | Carbaryl * #(T3) | 0.00 | 5.00 | 10.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 150 | Malathion * #(T3) | 0.00 | 5.00 | 11.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 9.00 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 151 | Sulfuryl fluoride | 2699-79-8 | 64.00 | 3.00 | 5.00 | 12008.00 | 3.70 | 1.29 | 242.73 |
| 152 | 2,4-D * #(T3) | 94-75-7 | 11.06 | 3.00 | 5.00 | 0.00 | 7.63 | 2.67 | 0.00 |
| 153 | Bromoform #(T3) | 75-25-2 | 850.00 | 2.00 | 5.00 | 5.00 | 8.70 | 3.04 | 0.02 |
| 154 | Fluorotrichloromethane #(T3) | 75-69-4 | 2000.00 | 1.00 | 5.00 | 792.00 | 5.04 | 1.76 | 0.70 |
| 155 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 76-13-1 | 2000.00 | 1.00 | 5.00 | 284.00 | 6.00 | 2.10 | 0.30 |
| 156 | Tetrachloroethylene | 127-18-4 | 1200.00 | 1.00 | 5.00 | 14.00 | 5.83 | 2.04 | 0.02 |
| 157 | Graphite #(T3) | 7782-42-5 | 1017.90 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 158 | Dichlorodifluoromethane #(T3) | 75-71-8 | 15000.00 | 0.00 | 5.00 | 4253.00 | 4.20 | 1.47 | 0.42 |
| 159 | Atrazine *T3 | 1912-24-9 | 1.50 | 4.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 160 | Methidathion #(T3) | 950-37-8 | 32.35 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 161 | Bismuth *T3 of BiOCl | 7440-69-9 | 47.00 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | Halothane (T:V) | 151-67-7 | 50.00 | 3.00 | 4.38 | 243.00 | 6.80 | 2.38 | 11.56 |
| 163 | Styrene | 100-42-5 | 1100.00 | 1.00 | 1.88 | 4.30 | 1.10 | 0.38 | 0.00 |
| 164 | Arsine | 7784-42-1 | 0.50 | 5.00 | 1.25 | 11362.00 | 2.66 | 0.93 | 21134.91 |
| 165 | Aluminum chloride, anydrous *T3 | 7446-70-0 | 91.68 | 3.00 | 3.75 | 1.00 | 0.00 | 0.00 | 0.00 |
| 166 | Boron tribromide T3 | 10294-33-4 | 5.00 | 4.00 | 3.75 | 40.00 | 2.30 | 0.80 | 6.43 |
| 167 | Sulfur trioxide-E3* | 7446-11-9 | 9.16 | 4.00 | 3.75 | 73.00 | 2.70 | 0.94 | 7.52 |
| 168 | Germanium tetrafluoride T3 | 7783-58-6 | 82.25 | 3.00 | 3.75 | 12153.01 | 1.00 | 0.35 | 51.66 |
| 169 | Chloropicrin | 76-06-2 | 1.40 | 4.00 | 3.13 | 16.90 | 5.70 | 1.99 | 24.06 |
| 170 | Strychnine Sulfate #(T3) | 60-41-3 | 0.29 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 57837-19-1 | 1.63 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 172 | Arsenic *T3 | 7440-38-2 | 1.63 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 173 | Methamidophos | 10265-92-6 | 10.39 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 39515-41-8 | 25.00 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175 | Acetyl Bromide *T3 | 506-96-7 | 20.00 | 3.00 | 2.50 | 103.00 | 4.24 | 1.48 | 7.63 |
| 176 | Methylamine | 74-89-5 | 350.00 | 2.00 | 2.50 | 1972.92 | 1.10 | 0.38 | 2.17 |
| 177 | Dimethylamine | 124-40-3 | 250.00 | 2.00 | 2.50 | 1388.03 | 1.60 | 0.56 | 3.11 |
| 178 | Allyl chloride | 107-05-1 | 140.00 | 2.00 | 2.50 | 340.00 | 2.64 | 0.92 | 2.24 |
| 179 | Profenofos #(I) | 41198-08-7 | 1600.00 | 1.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | Nitrosyl chloride-T3* | 2696-92-6 | 2.50 | 4.00 | 4.38 | 2180.00 | 2.30 | 0.80 | 701.26 |
| 181 | 2,6-di-tert-butyl-p-cresol *T3 | 128-37-0 | 44.45 | 3.00 | 4.38 | 0.01 | 7.60 | 2.66 | 0.00 |
| 182 | Hydroquinone * #(T3) | 123-31-9 | 11.10 | 3.00 | 4.38 | 0.00 | 3.81 | 1.33 | 0.00 |
| 183 | Dimethylphthalate * #(T3) | 131-11-3 | 62.96 | 3.00 | 4.38 | 0.00 | 6.69 | 2.34 | 0.00 |
| 184 | Methyl chloroform | 71-55-6 | 4200.00 | 0.00 | 4.38 | 100.00 | 4.60 | 1.61 | 0.04 |
| 185 | Benomyl | 17804-35-2 | 0.84 | 5.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 186 | Phosphorus | 7723-14-0 | 3.16 | 4.00 | 3.75 | 0.03 | 4.77 | 1.67 | 0.02 |
| 187 | Boron trichloride T3 | 10294-34-5 | 2.50 | 4.00 | 1.25 | 760.00 | 4.03 | 1.41 | 428.36 |
| 188 | Barium *T3 | 7440-39-3 | 22.31 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 189 | Tetramethylethylenediamine #(T#) | 110-18-9 | 125.00 | 2.00 | 3.75 | 3.00 | 4.00 | 1.40 | 0.03 |
| 190 | Ethylene T3 | 74-85-1 | 15000.00 | 0.00 | 1.25 | 26630.39 | 0.97 | 0.34 | 0.60 |
| 191 | p-Phenylene diamine * #(T3) | 106-50-3 | 5.70 | 4.00 | 3.13 | 0.08 | 3.72 | 1.30 | 0.02 |
| 192 | Furfural #(E3) | 98-01-1 | 100.00 | 3.00 | 3.13 | 1.00 | 3.31 | 1.16 | 0.01 |
| 193 | Chlorobenzene | 108-90-7 | 400.00 | 2.00 | 3.13 | 8.80 | 3.88 | 1.36 | 0.03 |
| 194 | Acetic anhydride #(T3) | 108-24-7 | 200.00 | 2.00 | 3.13 | 4.00 | 3.52 | 1.23 | 0.02 |
| 195 | Hexone #(T3) | 108-10-1 | 500.00 | 2.00 | 3.13 | 5.00 | 3.45 | 1.21 | 0.01 |
| 196 | Isoamyl alcohol (primary and secondary) #(T3) | 123-51-3 | 500.00 | 2.00 | 3.13 | 2.37 | 3.04 | 1.06 | 0.01 |
| 197 | Propyl chloroformate-T3* | 109-61-5 | 60.00 | 3.00 | 3.13 | 44.98 | 4.20 | 1.47 | 1.10 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 151 | Sulfuryl fluoride | 3.00 | 8.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 9.00 |
| 152 | 2,4-D * #(T3) | 0.00 | 5.00 | 15.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 153 | Bromoform #(T3) | 0.00 | 5.00 | 10.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 154 | Fluorotrichloromethane #(T3) | 0.00 | 5.00 | 12.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 155 | 1,1,2-Trichloro 1,2,2-trifluoroethane #(T3) | 0.00 | 5.00 | 12.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 156 | Tetrachloroethylene | 0.00 | 5.00 | 17.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 157 | Graphite #(T3) | 0.00 | 5.00 | 16.00 | 1.00 | 43.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 158 | Dichlorodifluoromethane #(T3) | 0.00 | 5.00 | 14.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 9.00 |
| 159 | Atrazine *T3 | 0.00 | 4.38 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 8.88 |
| 160 | Methidathion #(T3) | 0.00 | 4.38 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 2.50 | 8.88 |
| 161 | Bismuth *T3 of BiOCl | 0.00 | 4.38 | 15.00 | 1.00 | 26.00 | 3.00 | 4.00 | 0.50 | 8.88 |
| 162 | Halothane (T:V) | 3.00 | 7.38 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 8.88 |
| 163 | Styrene | 0.00 | 1.88 | 28.00 | 2.00 | 104.00 | 5.00 | 7.00 | 0.00 | 8.88 |
| 164 | Arsine | 5.00 | 6.25 | 8.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 8.75 |
| 165 | Aluminum chloride, anydrous *T3 | 0.00 | 3.75 | 10.00 | 1.00 | 99.00 | 4.00 | 5.00 | 0.00 | 8.75 |
| 166 | Boron tribromide T3 | 2.00 | 5.75 | 3.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.75 |
| 167 | Sulfur trioxide-E3* | 2.00 | 5.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.75 |
| 168 | Germanium tetrafluoride T3 | 3.00 | 6.75 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 8.75 |
| 169 | Chloropicrin | 3.00 | 6.13 | 3.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 8.63 |
| 170 | Strychnine Sulfate #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 2.50 | 8.50 |
| 171 | Metalaxyl #(T3 of parent dixylyl methyl carbamate) | 0.00 | 5.00 | 8.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 172 | Arsenic *T3 | 0.00 | 5.00 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 173 | Methamidophos | 0.00 | 5.00 | 9.00 | 0.00 | 45.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 174 | Fenpropathrin #(AEGL-3 of Cyano group of the carboxylate family) | 0.00 | 5.00 | 3.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 175 | Acetyl Bromide *T3 | 2.00 | 4.50 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 176 | Methylamine | 2.00 | 4.50 | 14.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 177 | Dimethylamine | 2.00 | 4.50 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 178 | Allyl chloride | 2.00 | 4.50 | 11.00 | 1.00 | 19.00 | 3.00 | 4.00 | 0.00 | 8.50 |
| 179 | Profenofos #(I) | 0.00 | 5.00 | 4.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.50 | 8.50 |
| 180 | Nitrosyl chloride-T3* | 3.00 | 7.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 8.38 |
| 181 | 2,6-di-tert-butyl-p-cresol *T3 | 0.00 | 4.38 | 13.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 8.38 |
| 182 | Hydroquinone * #(T3) | 0.00 | 4.38 | 15.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 8.38 |
| 183 | Dimethylphthalate * #(T3) | 0.00 | 4.38 | 16.00 | 1.00 | 36.00 | 3.00 | 4.00 | 0.00 | 8.38 |
| 184 | Methyl chloroform | 0.00 | 4.38 | 14.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 8.38 |
| 185 | Benomyl | 0.00 | 3.75 | 10.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 8.25 |
| 186 | Phosphorus | 0.00 | 3.75 | 11.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.50 | 8.25 |
| 187 | Boron trichloride T3 | 3.00 | 4.25 | 16.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 8.25 |
| 188 | Barium *T3 | 0.00 | 3.75 | 11.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.50 | 8.25 |
| 189 | Tetramethylethylenediamine #(T#) | 0.00 | 3.75 | 10.00 | 1.00 | 18.00 | 3.00 | 4.00 | 0.50 | 8.25 |
| 190 | Ethylene T3 | 0.00 | 1.25 | 20.00 | 2.00 | 173.00 | 5.00 | 7.00 | 0.00 | 8.25 |
| 191 | p-Phenylene diamine * #(T3) | 0.00 | 3.13 | 12.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 192 | Furfural #(E3) | 0.00 | 3.13 | 19.00 | 1.00 | 66.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 193 | Chlorobenzene | 0.00 | 3.13 | 13.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 194 | Acetic anhydride #(T3) | 0.00 | 3.13 | 19.00 | 1.00 | 55.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 195 | Hexone #(T3) | 0.00 | 3.13 | 17.00 | 1.00 | 52.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 196 | Isoamyl alcohol (primary and secondary) #(T3) | 0.00 | 3.13 | 18.00 | 1.00 | 60.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 197 | Propyl chloroformate-T3* | 2.00 | 5.13 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 8.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 198 | 2-Butanone | 78-93-3 | 4000.00 | 0.00 | 3.13 | 77.50 | 2.42 | 0.85 | 0.02 |
| 199 | 2 Aminopyridine #(I) | 504-29-0 | 5.00 | 4.00 | 5.00 | 0.80 | 3.20 | 1.12 | 0.18 |
| 200 | Warfarin * #(T3) | 81-81-2 | 1.60 | 4.00 | 5.00 | 0.09 | 0.00 | 0.00 | 0.00 |
| 201 | p-Anisidine * #(T3) | 104-94-9 | 9.93 | 4.00 | 5.00 | 0.03 | 4.25 | 1.49 | 0.00 |
| 202 | Ethylene dibromide | 106-93-4 | 46.00 | 3.00 | 5.00 | 11.00 | 6.48 | 2.27 | 0.54 |
| 203 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 118-52-5 | 62.06 | 3.00 | 5.00 | 1.00 | 6.80 | 2.38 | 0.04 |
| 204 | p-Nitrochlorobenzene * #(T3) | 100-00-5 | 15.52 | 3.00 | 2.50 | 0.09 | 5.44 | 1.90 | 0.01 |
| 205 | Hexachloroethane #(T3) | 67-72-1 | 300.00 | 2.00 | 5.00 | 0.40 | 8.16 | 2.85 | 0.00 |
| 206 | Dinitrogen tetroxide T3 | 10544-72-6 | 20.00 | 3.00 | 5.00 | 1551.00 | 1.58 | 0.55 | 42.84 |
| 207 | Methyl parathion #(T3) | 298-00-0 | 1.39 | 4.00 | 4.38 | 0.00 | 9.10 | 3.18 | 0.00 |
| 208 | Polyphosphoric acid | 68333-79-9 | 14.47 | 3.00 | 4.38 | 1.50 | 3.40 | 1.19 | 0.12 |
| 209 | Chloromethyl methyl ether E3 | 107-30-2 | 10.00 | 4.00 | 1.88 | 192.00 | 2.80 | 0.98 | 18.80 |
| 210 | Biphenyl * #(T3) | 92-52-4 | 15.80 | 3.00 | 4.38 | 0.01 | 5.31 | 1.86 | 0.00 |
| 211 | Diphenyl Ether #(T3) | 101-84-8 | 100.00 | 3.00 | 4.38 | 0.02 | 5.87 | 2.05 | 0.00 |
| 212 | Thiophanate methyl #(T3 of carbamate fungicides) | 23564-05-8 | 11.00 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 213 | Fenvalerate | 51630-58-1 | 29.11 | 3.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 214 | Acrylyl Chloride *T3 | 814-68-6 | 10.00 | 4.00 | 1.88 | 99.81 | 3.12 | 1.09 | 10.89 |
| 215 | Methyltrichlorosilane-E3* | 75-79-6 | 15.00 | 3.00 | 1.88 | 124.00 | 5.17 | 1.81 | 14.94 |
| 216 | Ethyl ether #(T3) | 60-29-7 | 1900.00 | 1.00 | 1.88 | 442.00 | 2.60 | 0.91 | 0.21 |
| 217 | Perchloromethyl mercaptan | 594-42-3 | 0.90 | 5.00 | 3.75 | 65.00 | 6.41 | 2.24 | 161.97 |
| 218 | Methylene bisphenyl isocyanate * #(E3) | 101-68-8 | 2.40 | 4.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 219 | Phosphine | 7803-51-2 | 3.60 | 4.00 | 1.25 | 760.00 | 1.17 | 0.41 | 86.36 |
| 220 | Ethylenediamine | 107-15-3 | 20.00 | 3.00 | 3.75 | 10.70 | 2.07 | 0.72 | 0.39 |
| 221 | Camphor (synthetic) * #(T3) | 76-22-2 | 32.11 | 3.00 | 3.75 | 0.65 | 5.24 | 1.83 | 0.04 |
| 222 | Quinone #(T3) | 106-51-4 | 22.60 | 3.00 | 3.75 | 0.10 | 3.70 | 1.29 | 0.01 |
| 223 | N,N-Dimethylaniline #(T3) | 121-69-7 | 100.00 | 3.00 | 3.75 | 0.40 | 4.17 | 1.46 | 0.01 |
| 224 | o-Toluidine #(T3) | 95-53-4 | 50.00 | 3.00 | 3.75 | 0.10 | 3.69 | 1.29 | 0.00 |
| 225 | Potassium chlorate | 3811-04-9 | 69.83 | 3.00 | 3.75 | 0.00 | 4.20 | 1.47 | 0.00 |
| 226 | Cyclohexanol #(T3) | 108-93-0 | 400.00 | 2.00 | 3.75 | 5.17 | 3.50 | 1.22 | 0.02 |
| 227 | Dimethyl acetamide #(T3) | 127-19-5 | 300.00 | 2.00 | 3.75 | 1.50 | 3.01 | 1.05 | 0.01 |
| 228 | p-Dichlorobenzene #(T3) | 106-46-7 | 150.00 | 2.00 | 3.75 | 0.60 | 5.08 | 1.78 | 0.01 |
| 229 | Methyl (n-amyl) ketone #(T3) | 110-43-0 | 800.00 | 2.00 | 3.75 | 3.00 | 3.94 | 1.38 | 0.01 |
| 230 | Diacetone alcohol #(T3) | 123-42-2 | 1800.00 | 1.00 | 3.75 | 1.71 | 4.00 | 1.40 | 0.00 |
| 231 | Acetonitrile | 75-05-8 | 670.00 | 2.00 | 3.13 | 73.00 | 1.42 | 0.50 | 0.05 |
| 232 | n-Propyl alcohol #(T3) | 71-23-8 | 800.00 | 2.00 | 3.13 | 15.00 | 2.10 | 0.73 | 0.01 |
| 233 | n-Amyl acetate #(T3) | 628-63-7 | 1000.00 | 2.00 | 3.13 | 4.00 | 4.50 | 1.57 | 0.01 |
| 234 | Ethyl bromide #(T3) | 74-96-4 | 1500.00 | 1.00 | 3.13 | 375.00 | 3.76 | 1.31 | 0.33 |
| 235 | Iron, pentacarbonyl- T3 | 13463-40-6 | 0.18 | 5.00 | 2.50 | 40.00 | 6.74 | 2.36 | 523.70 |
| 236 | Crag (r) herbicide #(T3) | 136-78-7 | 39.55 | 3.00 | 5.00 | 0.10 | 0.00 | 0.00 | 0.00 |
| 237 | Aldicarb *T# | 116-06-3 | 12.87 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 238 | Chloroform-D | 865-49-6 | 500.00 | 2.00 | 5.00 | 160.00 | 4.20 | 1.47 | 0.47 |
| 239 | Cumene | 98-82-8 | 730.00 | 2.00 | 2.50 | 3.20 | 4.13 | 1.44 | 0.01 |
| 240 | n-Pentane #(T3) | 109-66-0 | 1500.00 | 1.00 | 2.50 | 426.00 | 2.48 | 0.87 | 0.25 |
| 241 | Trimethylamine-E3* | 75-50-3 | 500.00 | 2.00 | 2.50 | 1487.83 | 2.00 | 0.70 | 2.08 |
| 242 | Ethane T3 | 74-84-0 | 25000.00 | 0.00 | 2.50 | 28877.37 | 1.05 | 0.37 | 0.42 |
| 243 | o-Anisidine * #(T3) | 90-04-0 | 9.93 | 4.00 | 4.38 | 0.98 | 4.25 | 1.49 | 0.15 |
| 244 | Acetylene tetrabromide #(T3) | 79-27-6 | 8.00 | 4.00 | 4.38 | 0.10 | 11.90 | 4.16 | 0.05 |
| 245 | 2-chloroacetophenone *IDLH | 532-27-4 | 2.38 | 4.00 | 4.38 | 0.01 | 5.20 | 1.82 | 0.00 |
| 246 | Triphenyl phosphate* | 115-86-6 | 37.47 | 3.00 | 4.38 | 1.00 | 11.30 | 3.95 | 0.11 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 198 | 2-Butanone | 0.00 | 3.13 | 18.00 | 1.00 | 63.00 | 4.00 | 5.00 | 0.00 | 8.13 |
| 199 | 2 Aminopyridine #(I) | 0.00 | 5.00 | 6.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 200 | Warfarin * #(T3) | 0.00 | 5.00 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 201 | p-Anisidine * #(T3) | 0.00 | 5.00 | 5.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 202 | Ethylene dibromide | 0.00 | 5.00 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 203 | 1,3-Dichloro 5,5-dimethylhydantoin #(TEEL3 of hydantoins REV 22) | 0.00 | 5.00 | 3.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 204 | p-Nitrochlorobenzene * #(T3) | 0.00 | 2.50 | 6.00 | 0.00 | 25.00 | 3.00 | 3.00 | 2.50 | 8.00 |
| 205 | Hexachloroethane #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 8.00 |
| 206 | Dinitrogen tetroxide T3 | 3.00 | 8.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.00 |
| 207 | Methyl parathion #(T3) | 0.00 | 4.38 | 7.00 | 0.00 | 25.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 208 | Polyphosphoric acid | 0.00 | 4.38 | 9.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 209 | Chloromethyl methyl ether E3 | 3.00 | 4.88 | 8.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 7.88 |
| 210 | Biphenyl * #(T3) | 0.00 | 4.38 | 7.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 211 | Diphenyl Ether #(T3) | 0.00 | 4.38 | 5.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 212 | Thiophanate methyl #(T3 of carbamate fungicides) | 0.00 | 4.38 | 8.00 | 0.00 | 30.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 213 | Fenvalerate | 0.00 | 4.38 | 6.00 | 0.00 | 48.00 | 3.00 | 3.00 | 0.50 | 7.88 |
| 214 | Acrylyl Chloride *T3 | 3.00 | 4.88 | 5.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 7.88 |
| 215 | Methyltrichlorosilane-E3* | 3.00 | 4.88 | 3.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 7.88 |
| 216 | Ethyl ether #(T3) | 0.00 | 1.88 | 20.00 | 2.00 | 57.00 | 4.00 | 6.00 | 0.00 | 7.88 |
| 217 | Perchloromethyl mercaptan | 3.00 | 6.75 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.75 |
| 218 | Methylene bisphenyl isocyanate * #(E3) | 0.00 | 3.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 219 | Phosphine | 3.00 | 4.25 | 9.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.50 | 7.75 |
| 220 | Ethylenediamine | 0.00 | 3.75 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 221 | Camphor (synthetic) * #(T3) | 0.00 | 3.75 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 222 | Quinone #(T3) | 0.00 | 3.75 | 12.00 | 1.00 | 25.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 223 | N,N-Dimethylaniline #(T3) | 0.00 | 3.75 | 11.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 224 | o-Toluidine #(T3) | 0.00 | 3.75 | 11.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 225 | Potassium chlorate | 0.00 | 3.75 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 226 | Cyclohexanol #(T3) | 0.00 | 3.75 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 227 | Dimethyl acetamide #(T3) | 0.00 | 3.75 | 11.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 228 | p-Dichlorobenzene #(T3) | 0.00 | 3.75 | 10.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 229 | Methyl (n-amyl) ketone #(T3) | 0.00 | 3.75 | 11.00 | 1.00 | 20.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 230 | Diacetone alcohol #(T3) | 0.00 | 3.75 | 11.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 7.75 |
| 231 | Acetonitrile | 0.00 | 3.13 | 19.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 7.63 |
| 232 | n-Propyl alcohol #(T3) | 0.00 | 3.13 | 18.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.50 | 7.63 |
| 233 | n-Amyl acetate #(T3) | 0.00 | 3.13 | 14.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 7.63 |
| 234 | Ethyl bromide #(T3) | 0.00 | 3.13 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.50 | 7.63 |
| 235 | Iron, pentacarbonyl- T3 | 3.00 | 5.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.50 |
| 236 | Crag (r) herbicide #(T3) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.50 | 7.50 |
| 237 | Aldicarb *T# | 0.00 | 5.00 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 7.50 |
| 238 | Chloroform-D | 0.00 | 5.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 7.50 |
| 239 | Cumene | 0.00 | 2.50 | 20.00 | 2.00 | 39.00 | 3.00 | 5.00 | 0.00 | 7.50 |
| 240 | n-Pentane #(T3) | 0.00 | 2.50 | 20.00 | 2.00 | 47.00 | 3.00 | 5.00 | 0.00 | 7.50 |
| 241 | Trimethylamine-E3* | 2.00 | 4.50 | 8.00 | 0.00 | 41.00 | 3.00 | 3.00 | 0.00 | 7.50 |
| 242 | Ethane T3 | 0.00 | 2.50 | 28.00 | 2.00 | 33.00 | 3.00 | 5.00 | 0.00 | 7.50 |
| 243 | o-Anisidine * #(T3) | 0.00 | 4.38 | 5.00 | 0.00 | 24.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 244 | Acetylene tetrabromide #(T3) | 0.00 | 4.38 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 245 | 2-chloroacetophenone *IDLH | 0.00 | 4.38 | 6.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 246 | Triphenyl phosphate* | 0.00 | 4.38 | 5.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 7.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 247 | Ammonium sulfamate * #(T3) | 7773-06-0 | 107.10 | 2.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 248 | Arsenic trichloride T3 | 7784-34-1 | 12.50 | 3.00 | 4.38 | 10.00 | 6.25 | 2.19 | 1.75 |
| 249 | Chlorobromomethane #(T3) | 74-97-5 | 2000.00 | 1.00 | 4.38 | 117.00 | 4.46 | 1.56 | 0.09 |
| 250 | Thiodiglycol-Alfa MSDS*B71 | 111-48-8 | 4150.00 | 0.00 | 4.38 | 0.00 | 4.24 | 1.48 | 0.00 |
| 251 | Dicofol #(T3) | 115-32-2 | 0.50 | 5.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 252 | Acrolein | 107-02-8 | 1.40 | 4.00 | 1.25 | 210.00 | 1.94 | 0.68 | 101.75 |
| 253 | Sodium azide (#T3) | 26628-22-8 | 4.69 | 4.00 | 3.75 | 0.00 | 2.20 | 0.77 | 0.00 |
| 254 | 2-Diethylaminoethanol #(I) | 100-37-8 | 100.00 | 3.00 | 3.75 | 21.00 | 4.03 | 1.41 | 0.30 |
| 255 | Bromoxynil #(T3-as naptha solution only) | 1689-84-5 | 80.00 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 256 | Bromobenzene #(T3) | 108-86-1 | 350.00 | 2.00 | 3.75 | 5.00 | 5.41 | 1.89 | 0.03 |
| 257 | 1,2-dimethylimidazole LD50 | 1739-84-0 | 417.00 | 2.00 | 3.75 | 1.00 | 0.00 | 0.00 | 0.00 |
| 258 | 1-methyl imidazole LD50 | 616-47-7 | 417.00 | 2.00 | 3.75 | 0.48 | 2.83 | 0.99 | 0.00 |
| 259 | Trichlorosilane-E3* | 10025-78-2 | 25.00 | 3.00 | 1.25 | 504.10 | 4.68 | 1.64 | 33.00 |
| 260 | Dimethyl sulfate | 77-78-1 | 1.60 | 4.00 | 3.13 | 0.30 | 4.35 | 1.52 | 0.29 |
| 261 | Benzyl chloride #(E3) | 100-44-7 | 25.00 | 3.00 | 3.13 | 1.00 | 4.40 | 1.54 | 0.06 |
| 262 | Furfuryl alcohol #(T3) | 98-00-0 | 75.00 | 3.00 | 3.13 | 0.40 | 3.40 | 1.19 | 0.01 |
| 263 | Diethylamine #(T3) | 109-89-7 | 200.00 | 2.00 | 3.13 | 195.00 | 2.50 | 0.87 | 0.85 |
| 264 | Triethylamine #(T3) | 121-44-8 | 200.00 | 2.00 | 3.13 | 53.50 | 3.48 | 1.22 | 0.33 |
| 265 | Piperidine-T3* | 110-89-4 | 250.00 | 2.00 | 3.13 | 28.30 | 3.00 | 1.05 | 0.12 |
| 266 | n-Heptane #(T3) | 142-82-5 | 750.00 | 2.00 | 3.13 | 37.49 | 3.50 | 1.22 | 0.06 |
| 267 | Methyl Cellosolve (r) #(I) | 109-86-4 | 200.00 | 2.00 | 3.13 | 6.20 | 2.62 | 0.92 | 0.03 |
| 268 | Pyridine #(T3) | 110-86-1 | 1000.00 | 2.00 | 3.13 | 18.00 | 2.72 | 0.95 | 0.02 |
| 269 | Isoamyl acetate #(T3) | 123-92-2 | 1000.00 | 2.00 | 3.13 | 4.00 | 4.49 | 1.57 | 0.01 |
| 270 | Chlorine pentafluoride T3 | 13637-63-3 | 60.00 | 3.00 | 3.13 | 2550.21 | 4.50 | 1.57 | 66.88 |
| 271 | Bromine pentafluoride T3 | 7789-30-2 | 35.00 | 3.00 | 3.13 | 328.00 | 6.05 | 2.12 | 19.82 |
| 272 | Isopropyl acetate #(T3) | 108-21-4 | 1800.00 | 1.00 | 3.13 | 43.00 | 3.50 | 1.22 | 0.03 |
| 273 | tert-Butyl alcohol #(T3) | 75-65-0 | 1600.00 | 1.00 | 3.13 | 31.00 | 2.55 | 0.89 | 0.02 |
| 274 | n-Propyl acetate #(I) | 109-60-4 | 1700.00 | 1.00 | 3.13 | 25.00 | 3.50 | 1.22 | 0.02 |
| 275 | sec-Butyl alcohol #(T3) | 78-92-2 | 2000.00 | 1.00 | 3.13 | 12.00 | 2.60 | 0.91 | 0.01 |
| 276 | Methyl acetate #(I) | 79-20-9 | 3100.00 | 0.00 | 3.13 | 170.00 | 2.80 | 0.98 | 0.05 |
| 277 | Pentachlorophenol * #(T3) | 87-86-5 | 0.23 | 5.00 | 5.00 | 0.00 | 9.20 | 3.22 | 0.00 |
| 278 | Thallium sulfate #(T3 of Tl) | 7446-18-6 | 1.77 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 279 | 1,1,2,2-Tetrachloroethane #(T3) | 79-34-5 | 100.00 | 3.00 | 5.00 | 5.00 | 5.79 | 2.02 | 0.10 |
| 280 | Dioxane | 123-91-1 | 760.00 | 2.00 | 2.50 | 29.00 | 3.03 | 1.06 | 0.04 |
| 281 | Lithium #(T3) | 7439-93-2 | 1409.20 | 1.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 282 | Trifluorobromomethane #(T3) | 75-63-8 | 40000.00 | 0.00 | 5.00 | 12153.00 | 5.14 | 1.80 | 0.55 |
| 283 | Dichlorotetrafluoroethane #(T3) | 76-14-2 | 15000.00 | 0.00 | 5.00 | 1427.00 | 5.93 | 2.07 | 0.20 |
| 284 | Azinphosmethyl * #(T3) | 86-50-0 | 0.77 | 5.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 285 | alpha-Chloroacetophenone * #(I) | 532-27-4 | 2.37 | 4.00 | 4.38 | 0.01 | 5.20 | 1.82 | 0.00 |
| 286 | Phenamiphos #(T3) | 22224-92-6 | 3.22 | 4.00 | 4.38 | 0.00 | 1.19 | 0.42 | 0.00 |
| 287 | Acrylonitrile | 107-13-1 | 100.00 | 3.00 | 1.88 | 100.00 | 1.90 | 0.66 | 0.66 |
| 288 | Methyl hydrazine | 60-34-4 | 2.70 | 4.00 | 1.88 | 49.60 | 1.60 | 0.56 | 10.28 |
| 289 | Sodium hydrosulfite-T3* | 7775-14-6 | 35.11 | 3.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 |
| 290 | Methyl mercaptan | 74-93-1 | 68.00 | 3.00 | 1.88 | 1535.00 | 1.66 | 0.58 | 13.10 |
| 291 | Dimethyldichlorosilane T3 | 75-78-5 | 75.00 | 3.00 | 1.88 | 100.00 | 4.45 | 1.56 | 2.07 |
| 292 | Carbonyl sulfide T3 | 463-58-1 | 125.00 | 2.00 | 1.88 | 9090.00 | 2.10 | 0.73 | 53.40 |
| 293 | Tetramethylsilane-T3* | 75-76-3 | 125.00 | 2.00 | 1.88 | 589.00 | 3.00 | 1.05 | 4.94 |
| 294 | Trimethylchlorosilane-E3* | 75-77-44 | 150.00 | 2.00 | 1.88 | 608.00 | 3.70 | 1.29 | 5.24 |
| 295 | Thionyl chloride-E3* | 7719-09-715 | 10.00 | 4.00 | 3.75 | 100.00 | 0.00 | 0.00 | 0.00 |
| 296 | Chlorosulfonic acid E3 | 7790-94-5 | 6.29 | 4.00 | 3.75 | 1.55 | 4.02 | 1.41 | 0.35 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 247 | Ammonium sulfamate * #(T3) | 0.00 | 4.38 | 8.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 248 | Arsenic trichloride T3 | 2.00 | 6.38 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 7.38 |
| 249 | Chlorobromomethane #(T3) | 0.00 | 4.38 | 7.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 250 | Thiodiglycol-Alfa MSDS*B71 | 0.00 | 4.38 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 7.38 |
| 251 | Dicofol #(T3) | 0.00 | 3.75 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 252 | Acrolein | 3.00 | 4.25 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 7.25 |
| 253 | Sodium azide (#T3) | 0.00 | 3.75 | 8.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 254 | 2-Diethylaminoethanol #(I) | 0.00 | 3.75 | 0.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 255 | Bromoxynil #(T3-as naptha solution only) | 0.00 | 3.75 | 5.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 256 | Bromobenzene #(T3) | 0.00 | 3.75 | 8.00 | 0.00 | 34.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 257 | 1,2-dimethylimidazole LD50 | 0.00 | 3.75 | 5.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 258 | 1-methyl imidazole LD50 | 0.00 | 3.75 | 8.00 | 0.00 | 22.00 | 3.00 | 3.00 | 0.50 | 7.25 |
| 259 | Trichlorosilane-E3* | 3.00 | 4.25 | 4.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 7.25 |
| 260 | Dimethyl sulfate | 0.00 | 3.13 | 12.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 261 | Benzyl chloride #(E3) | 0.00 | 3.13 | 12.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 262 | Furfuryl alcohol #(T3) | 0.00 | 3.13 | 12.00 | 1.00 | 38.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 263 | Diethylamine #(T3) | 0.00 | 3.13 | 16.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 264 | Triethylamine #(T3) | 0.00 | 3.13 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 265 | Piperidine-T3* | 0.00 | 3.13 | 11.00 | 1.00 | 21.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 266 | n-Heptane #(T3) | 0.00 | 3.13 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 267 | Methyl Cellosolve (r) #(I) | 0.00 | 3.13 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 268 | Pyridine #(T3) | 0.00 | 3.13 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 269 | Isoamyl acetate #(T3) | 0.00 | 3.13 | 13.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 270 | Chlorine pentafluoride T3 | 3.00 | 6.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 7.13 |
| 271 | Bromine pentafluoride T3 | 3.00 | 6.13 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 7.13 |
| 272 | Isopropyl acetate #(T3) | 0.00 | 3.13 | 14.00 | 1.00 | 41.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 273 | tert-Butyl alcohol #(T3) | 0.00 | 3.13 | 13.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 274 | n-Propyl acetate #(I) | 0.00 | 3.13 | 12.00 | 1.00 | 31.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 275 | sec-Butyl alcohol #(T3) | 0.00 | 3.13 | 12.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 276 | Methyl acetate #(I) | 0.00 | 3.13 | 15.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 7.13 |
| 277 | Pentachlorophenol * #(T3) | 0.00 | 5.00 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 278 | Thallium sulfate #(T3 of Tl) | 0.00 | 5.00 | 4.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 279 | 1,1,2,2-Tetrachloroethane #(T3) | 0.00 | 5.00 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 280 | Dioxane | 0.00 | 2.50 | 12.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 7.00 |
| 281 | Lithium #(T3) | 0.00 | 2.50 | 11.00 | 1.00 | 23.00 | 3.00 | 4.00 | 0.50 | 7.00 |
| 282 | Trifluorobromomethane #(T3) | 0.00 | 5.00 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 283 | Dichlorotetrafluoroethane #(T3) | 0.00 | 5.00 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 7.00 |
| 284 | Azinphosmethyl * #(T3) | 0.00 | 4.38 | 5.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.50 | 6.88 |
| 285 | alpha-Chloroacetophenone * #(I) | 0.00 | 4.38 | 3.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 6.88 |
| 286 | Phenamiphos #(T3) | 0.00 | 4.38 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.50 | 6.88 |
| 287 | Acrylonitrile | 0.00 | 1.88 | 16.00 | 1.00 | 53.00 | 4.00 | 5.00 | 0.00 | 6.88 |
| 288 | Methyl hydrazine | 3.00 | 4.88 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.88 |
| 289 | Sodium hydrosulfite-T3* | 0.00 | 1.88 | 20.00 | 2.00 | 48.00 | 3.00 | 5.00 | 0.00 | 6.88 |
| 290 | Methyl mercaptan | 3.00 | 4.88 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 6.88 |
| 291 | Dimethyldichlorosilane T3 | 2.00 | 3.88 | 4.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.00 | 6.88 |
| 292 | Carbonyl sulfide T3 | 3.00 | 4.88 | 2.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 6.88 |
| 293 | Tetramethylsilane-T3* | 2.00 | 3.88 | 6.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 6.88 |
| 294 | Trimethylchlorosilane-E3* | 2.00 | 3.88 | | 0.00 | 30.00 | 3.00 | 3.00 | 0.00 | 6.88 |
| 295 | Thionyl chloride-E3* | 0.00 | 3.75 | | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 296 | Chlorosulfonic acid E3 | 0.00 | 3.75 | 6.00 | 0.00 | 38.00 | 3.00 | 3.00 | 0.00 | 6.75 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 297 | Phosphorus pentachloride * #(T3) | 10026-13-8 | 8.22 | 4.00 | 3.75 | 0.01 | 7.20 | 2.52 | 0.00 |
| 298 | Ethylene chlorohydrin | 107-07-3 | 12.00 | 3.00 | 3.75 | 7.18 | 2.78 | 0.97 | 0.58 |
| 299 | Dichloroethyl ether #(T3) | 111-44-4 | 100.00 | 3.00 | 3.75 | 0.70 | 4.93 | 1.72 | 0.01 |
| 300 | Monomethyl aniline #(T3) | 100-61-8 | 100.00 | 3.00 | 3.75 | 0.30 | 3.90 | 1.36 | 0.00 |
| 301 | Phenylhydrazine #(T3) | 100-63-0 | 15.00 | 3.00 | 3.75 | 0.04 | 4.00 | 1.40 | 0.00 |
| 302 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 88-72-2; 99-08-1; 99-99-0 | 60.00 | 3.00 | 3.75 | 0.10 | 4.72 | 1.65 | 0.00 |
| 303 | Potassium perchlorate-T3* | 7778-74-7 | 88.24 | 3.00 | 3.75 | 0.00 | 4.80 | 1.68 | 0.00 |
| 304 | Triethyl phosphite-T3* | 122-52-1 | 200.00 | 2.00 | 3.75 | 3.19 | 0.00 | 0.00 | 0.00 |
| 305 | n-Butyl glycidyl ether #(T3) | 2426-08-6 | 250.00 | 2.00 | 3.75 | 3.20 | 4.50 | 1.57 | 0.02 |
| 306 | Methyl Cellosolve (r) acetate #(I) | 110-49-6 | 200.00 | 2.00 | 3.75 | 2.00 | 4.07 | 1.42 | 0.01 |
| 307 | Diisobutyl ketone #(T3) | 108-83-8 | 200.00 | 2.00 | 3.75 | 1.70 | 4.90 | 1.71 | 0.01 |
| 308 | 2-Ethoxyethanol #(T3) | 110-80-5 | 500.00 | 2.00 | 3.75 | 3.80 | 3.10 | 1.08 | 0.01 |
| 309 | Methyl isobutyl carbinol #(I) | 108-11-2 | 400.00 | 2.00 | 3.75 | 3.00 | 3.52 | 1.23 | 0.01 |
| 310 | o-Dichlorobenzene #(T3) | 95-50-1 | 200.00 | 2.00 | 3.75 | 1.00 | 5.05 | 1.77 | 0.01 |
| 311 | 2-Ethoxyethyl acetate #(T3) | 111-15-9 | 500.00 | 2.00 | 3.75 | 1.20 | 4.72 | 1.65 | 0.00 |
| 312 | Dipropylene glycol methyl ether #(T3) | 34590-94-8 | 400.00 | 2.00 | 3.75 | 0.50 | 5.11 | 1.79 | 0.00 |
| 313 | 2-Butoxyethanol #(T3) | 111-76-2 | 700.00 | 2.00 | 3.75 | 0.76 | 4.07 | 1.42 | 0.00 |
| 314 | Parathion * | 56-38-2 | 0.17 | 5.00 | 3.13 | 0.00 | 10.00 | 3.50 | 0.00 |
| 315 | Thioglycol TEEL-3 | 60-24-2 | 200.00 | 2.00 | 3.13 | 1.00 | 2.69 | 0.94 | 0.00 |
| 316 | Silane-T3* | 7803-62-5 | 4000.00 | 0.00 | 0.63 | 54300.00 | 1.30 | 0.45 | 6.17 |
| 317 | Phosphamidon #(T3) | 13171-21-6 | 0.49 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 318 | Sodium fluoroacetate #(T3) | 62-74-8 | 0.61 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 319 | Chloromethyl ether E3 | 542-88-1 | 0.50 | 5.00 | 2.50 | 30.00 | 4.00 | 1.40 | 83.92 |
| 320 | Pirimicarb #(T3 as carbamate ester) | 5947-49-9 | 1.63 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 321 | Antimony oxide *T3 | 1309-64-4 | 6.43 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 322 | Thallium #(T3) | 7440-28-0 | 1.77 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 323 | Acetone cyanohydrin, stabilized *T-3 | 75-86-5 | 15.00 | 3.00 | 2.50 | 0.80 | 2.93 | 1.02 | 0.05 |
| 324 | Toxaphene #(T3 based on Keplinger 1963 study) | 8001-35-2 | 29.53 | 3.00 | 5.00 | 0.40 | 14.30 | 5.00 | 0.07 |
| 325 | Acrylamide * #(T3) | 79-06-1 | 20.64 | 3.00 | 2.50 | 0.01 | 2.45 | 0.86 | 0.00 |
| 326 | DDT * #(T3) | 50-29-3 | 34.49 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 327 | Allylamine *T3 | 107-11-9 | 18.00 | 3.00 | 2.50 | 192.77 | 2.00 | 0.70 | 7.49 |
| 328 | Ethylamine | 75-04-7 | 270.00 | 2.00 | 2.50 | 400.00 | 1.56 | 0.55 | 0.81 |
| 329 | Isopropylamine #(T3) | 75-31-0 | 750.00 | 2.00 | 2.50 | 580.00 | 2.03 | 0.71 | 0.55 |
| 330 | Carbon disulfide | 75-15-0 | 480.00 | 2.00 | 2.50 | 360.00 | 2.67 | 0.93 | 0.70 |
| 331 | Ethyl silicate #(E3) | 78-10-4 | 300.00 | 2.00 | 2.50 | 1.00 | 7.20 | 2.52 | 0.01 |
| 332 | Isopropyl ether #(T3) | 108-20-3 | 1400.00 | 1.00 | 2.50 | 119.00 | 3.52 | 1.23 | 0.10 |
| 333 | Morpholine #(T3) | 110-91-8 | 1400.00 | 1.00 | 2.50 | 6.60 | 3.00 | 1.05 | 0.00 |
| 334 | Methyl chloride | 74-87-3 | 3000.00 | 0.00 | 2.50 | 3672.00 | 1.80 | 0.63 | 0.77 |
| 335 | Methylal #(T3) | 109-87-5 | 2200.00 | 0.00 | 2.50 | 337.08 | 2.60 | 0.91 | 0.14 |
| 336 | Isopentane-T3* | 78-78-4 | 20000.00 | 0.00 | 2.50 | 595.00 | 2.48 | 0.87 | 0.03 |
| 337 | 1-Butene T3 | 106-98-9 | 500000.00 | 0.00 | 2.50 | 3480.00 | 1.93 | 0.67 | 0.00 |
| 338 | 1,1,2-Trichloroethane #(T3) | 79-00-5 | 100.00 | 3.00 | 4.38 | 16.70 | 4.63 | 1.62 | 0.27 |
| 339 | Triethanolamine-T3* | 102-71-6 | 81.94 | 3.00 | 4.38 | 0.00 | 5.14 | 1.80 | 0.00 |
| 340 | 1,1-Dimethylhydrazine | 57-14-7 | 11.00 | 3.00 | 1.88 | 157.00 | 1.94 | 0.68 | 9.68 |
| 341 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 126-33-0 | 150.00 | 2.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 297 | Phosphorus pentachloride * #(T3) | 0.00 | 3.75 | 7.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 298 | Ethylene chlorohydrin | 0.00 | 3.75 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 299 | Dichloroethyl ether #(T3) | 0.00 | 3.75 | 4.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 300 | Monomethyl aniline #(T3) | 0.00 | 3.75 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 301 | Phenylhydrazine #(T3) | 0.00 | 3.75 | 8.00 | 0.00 | 23.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 302 | Nitrotoluene (o, m, p isomers) #(T3) - Note: o isomer T3 = 60ppm; m and p isomers T3 = 200ppm; Lowest T3 value used | 0.00 | 3.75 | 7.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 303 | Potassium perchlorate-T3* | 0.00 | 3.75 | 7.00 | 0.00 | 27.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 304 | Triethyl phosphite-T3* | 0.00 | 3.75 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 305 | n-Butyl glycidyl ether #(T3) | 0.00 | 3.75 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 306 | Methyl Cellosolve (r) acetate #(I) | 0.00 | 3.75 | 6.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 307 | Diisobutyl ketone #(T3) | 0.00 | 3.75 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 308 | 2-Ethoxyethanol #(T3) | 0.00 | 3.75 | 1.00 | 0.00 | 31.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 309 | Methyl isobutyl carbinol #(I) | 0.00 | 3.75 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 310 | o-Dichlorobenzene #(T3) | 0.00 | 3.75 | 9.00 | 0.00 | 37.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 311 | 2-Ethoxyethyl acetate #(T3) | 0.00 | 3.75 | 8.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 312 | Dipropylene glycol methyl ether #(T3) | 0.00 | 3.75 | 7.00 | 0.00 | 35.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 313 | 2-Butoxyethanol #(T3) | 0.00 | 3.75 | 1.00 | 0.00 | 43.00 | 3.00 | 3.00 | 0.00 | 6.75 |
| 314 | Parathion * | 0.00 | 3.13 | 3.00 | 0.00 | 11.00 | 3.00 | 3.00 | 0.50 | 6.63 |
| 315 | Thioglycol TEEL-3 | 0.00 | 3.13 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.50 | 6.63 |
| 316 | Silane-T3* | 2.00 | 2.63 | 16.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 6.63 |
| 317 | Phosphamidon #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 318 | Sodium fluoroacetate #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 319 | Chloromethyl ether E3 | 3.00 | 5.50 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.50 |
| 320 | Pirimicarb #(T3 as carbamate ester) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 321 | Antimony oxide *T3 | 0.00 | 5.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 322 | Thallium #(T3) | 0.00 | 5.00 | 5.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 323 | Acetone cyanohydrin, stabilized *T-3 | 0.00 | 2.50 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 324 | Toxaphene #(T3 based on Keplinger 1963 study) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 325 | Acrylamide * #(T3) | 0.00 | 2.50 | 14.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 326 | DDT * #(T3) | 0.00 | 5.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 6.50 |
| 327 | Allylamine *T3 | 2.00 | 4.50 | 5.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 6.50 |
| 328 | Ethylamine | 0.00 | 2.50 | 14.00 | 1.00 | 33.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 329 | Isopropylamine #(T3) | 0.00 | 2.50 | 13.00 | 1.00 | 30.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 330 | Carbon disulfide | 0.00 | 2.50 | 16.00 | 1.00 | 45.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 331 | Ethyl silicate #(E3) | 0.00 | 2.50 | 10.00 | 1.00 | 39.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 332 | Isopropyl ether #(T3) | 0.00 | 2.50 | 15.00 | 1.00 | 24.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 333 | Morpholine #(T3) | 0.00 | 2.50 | 12.00 | 1.00 | 32.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 334 | Methyl chloride | 0.00 | 2.50 | 17.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 335 | Methylal #(T3) | 0.00 | 2.50 | 10.00 | 1.00 | 13.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 336 | Isopentane-T3* | 0.00 | 2.50 | 17.00 | 1.00 | 29.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 337 | 1-Butene T3 | 0.00 | 2.50 | 15.00 | 1.00 | 50.00 | 3.00 | 4.00 | 0.00 | 6.50 |
| 338 | 1,1,2-Trichloroethane #(T3) | 0.00 | 4.38 | 2.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 6.38 |
| 339 | Triethanolamine-T3* | 0.00 | 4.38 | 6.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 6.38 |
| 340 | 1,1-Dimethylhydrazine | 2.00 | 3.88 | 7.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 6.38 |
| 341 | Tetramethylenedisulfotetramine #(T3 as triethyelentetramine) | 0.00 | 4.38 | 5.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 6.38 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 342 | Nickel Carbonyl-T3* | 13463-39-3 | 0.16 | 5.00 | 1.25 | 400.00 | 5.89 | 2.06 | 5148.60 |
| 343 | 2-thiophenecarbonitrile (as CN) | 1003-31-2 | 25.00 | 3.00 | 3.75 | 0.30 | 0.00 | 0.00 | 0.00 |
| 344 | Trypan blue #(T3) | 72-57-1 | 14.02 | 3.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 345 | Propylene oxide | 75-56-9 | 870.00 | 2.00 | 1.25 | 445.00 | 2.00 | 0.70 | 0.36 |
| 346 | Isoflurane #(IDLH of halgenated ethers-general) | 26675-46-7 | 2000.00 | 1.00 | 3.75 | 238.00 | 6.30 | 2.20 | 0.26 |
| 347 | Nitrogen trifluoride #(T3) | 7783-54-2 | 800.00 | 2.00 | 1.25 | 1500.00 | 2.46 | 0.86 | 1.61 |
| 348 | Sulfur monochloride | 10025-67-9 | 15.00 | 3.00 | 3.13 | 7.00 | 4.66 | 1.63 | 0.76 |
| 349 | Cyclohexylamine T3 | 108-91-8 | 30.00 | 3.00 | 3.13 | 11.00 | 3.42 | 1.20 | 0.44 |
| 350 | N-Ethylmorpholine #(I) | 100-74-3 | 100.00 | 3.00 | 3.13 | 6.20 | 4.00 | 1.40 | 0.09 |
| 351 | p-Nitroaniline * #(T3) | 100-01-6 | 53.10 | 3.00 | 3.13 | 0.00 | 4.77 | 1.67 | 0.00 |
| 352 | Diisopropylamine #(T3) | 108-18-9 | 200.00 | 2.00 | 3.13 | 74.00 | 3.50 | 1.22 | 0.45 |
| 353 | n-Butylamine #(T3) | 109-73-9 | 300.00 | 2.00 | 3.13 | 72.00 | 2.52 | 0.88 | 0.21 |
| 354 | Propylene dichloride #(T3) | 78-87-5 | 400.00 | 2.00 | 3.13 | 42.00 | 3.90 | 1.36 | 0.14 |
| 355 | Octane #(T3) | 111-65-9 | 1000.00 | 2.00 | 3.13 | 10.00 | 0.00 | 0.00 | 0.00 |
| 356 | Isophorone #(T3) | 78-59-1 | 200.00 | 2.00 | 3.13 | 0.20 | 4.77 | 1.67 | 0.00 |
| 357 | Ethyl formate #(I) | 109-94-4 | 1500.00 | 1.00 | 3.13 | 200.00 | 2.56 | 0.90 | 0.12 |
| 358 | Cyclohexene #(T3) | 110-83-8 | 2000.00 | 1.00 | 3.13 | 160.00 | 2.80 | 0.98 | 0.08 |
| 359 | Methylcyclohexane #(T3) | 108-87-2 | 1200.00 | 1.00 | 3.13 | 37.00 | 3.39 | 1.19 | 0.04 |
| 360 | 2-Pentanone #(T3) | 107-87-9 | 1500.00 | 1.00 | 3.13 | 12.00 | 3.00 | 1.05 | 0.01 |
| 361 | 2-chlorobenzoyl Chloride | 609-65-4 | 1.00 | 5.00 | 2.50 | 0.04 | 6.03 | 2.11 | 0.09 |
| 362 | Phosdrin * #(T3) (Mevinphos) | 7786-34-7 | 0.44 | 5.00 | 5.00 | 0.00 | 7.50 | 2.62 | 0.01 |
| 363 | TEDP * #(T3) | 3689-24-5 | 0.76 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 364 | Dinitrocresol * #(T3) | 534-52-1 | 0.62 | 5.00 | 5.00 | 0.00 | 6.80 | 2.38 | 0.00 |
| 365 | EPN * #(T3) | 2104-64-5 | 0.38 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 366 | Endrin * #(T3) | 72-20-8 | 0.13 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 367 | Difethialone (T3 based on warfarin) | 104653-34-1 | 0.67 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 368 | Heptachlor * #(T3) | 76-44-8 | 2.29 | 4.00 | 5.00 | 0.00 | 13.00 | 4.55 | 0.00 |
| 369 | Tetryl * #(T3) | 479-45-8 | 42.57 | 3.00 | 5.00 | 1.00 | 0.00 | 0.00 | 0.00 |
| 370 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 300-76-5 | 12.83 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 371 | Benzoyl peroxide* #(T3) | 94-36-0 | 50.47 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 372 | Methoxychlor * #(T3) | 72-43-5 | 35.37 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 373 | 2,4,5-T * #(T3) | 93-76-5 | 23.92 | 3.00 | 5.00 | 0.00 | 9.29 | 3.25 | 0.00 |
| 374 | ANTU * #(T3) | 86-88-4 | 12.10 | 3.00 | 5.00 | 0.00 | 6.99 | 2.44 | 0.00 |
| 375 | Difluorodibromomethane #(I) | 75-61-6 | 2000.00 | 1.00 | 5.00 | 620.00 | 7.20 | 2.52 | 0.78 |
| 376 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 76-11-9 | 2000.00 | 1.00 | 5.00 | 40.00 | 7.04 | 2.46 | 0.05 |
| 377 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 76-12-0 | 2000.00 | 1.00 | 5.00 | 40.00 | 7.04 | 2.46 | 0.05 |
| 378 | Dichloromonofluoromethane #(T3) | 75-43-4 | 5000.00 | 0.00 | 5.00 | 1193.00 | 3.57 | 1.25 | 0.30 |
| 379 | TEPP * #(T3) | 107-49-3 | 0.42 | 5.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 380 | Methyl isocyanate | 624-83-9 | 0.20 | 5.00 | 1.88 | 10.00 | 1.42 | 0.50 | 24.83 |
| 381 | Di-syston #(T3) | 298-04-4 | 6.68 | 4.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 382 | Oxydemeton-methyl #(I) | 301-12-2 | 3.97 | 4.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 383 | Epichlorohydrin #(I) | 106-89-8 | 75.00 | 3.00 | 1.88 | 10.00 | 3.29 | 1.15 | 0.15 |
| 384 | Diketene | 674-82-8 | 2.00 | 4.00 | 1.88 | 10.00 | 2.90 | 1.01 | 5.07 |
| 385 | Cyanogen T3 | 460-19-5 | 15.00 | 3.00 | 1.88 | 3876.00 | 1.80 | 0.63 | 162.63 |
| 386 | Hexachlorobenzene | 118-74-1 | 17.17 | 3.00 | 4.38 | 0.00 | 9.80 | 3.43 | 0.00 |
| 387 | Tetranitromethane | 509-14-8 | 1.70 | 4.00 | 1.88 | 13.00 | 6.80 | 2.38 | 18.18 |
| 388 | Acetyl Chloride *T3 | 75-36-5 | 125.00 | 2.00 | 1.88 | 135.00 | 2.10 | 0.73 | 0.79 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 342 | Nickel Carbonyl-T3* | 4.00 | 5.25 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 6.25 |
| 343 | 2-thiophenecarbonitrile (as CN) | 0.00 | 3.75 | 4.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.50 | 6.25 |
| 344 | Trypan blue #(T3) | 0.00 | 3.75 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.50 | 6.25 |
| 345 | Propylene oxide | 0.00 | 1.25 | 16.00 | 1.00 | 54.00 | 4.00 | 5.00 | 0.00 | 6.25 |
| 346 | Isoflurane #(IDLH of halgenated ethers-general) | 0.00 | 3.75 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.50 | 6.25 |
| 347 | Nitrogen trifluoride #(T3) | 2.00 | 3.25 | 7.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 6.25 |
| 348 | Sulfur monochloride | 0.00 | 3.13 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 349 | Cyclohexylamine T3 | 0.00 | 3.13 | 8.00 | 0.00 | 32.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 350 | N-Ethylmorpholine #(I) | 0.00 | 3.13 | 7.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 351 | p-Nitroaniline * #(T3) | 0.00 | 3.13 | 5.00 | 0.00 | 47.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 352 | Diisopropylamine #(T3) | 0.00 | 3.13 | 6.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 353 | n-Butylamine #(T3) | 0.00 | 3.13 | 8.00 | 0.00 | 19.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 354 | Propylene dichloride #(T3) | 0.00 | 3.13 | 9.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 355 | Octane #(T3) | 0.00 | 3.13 | 8.00 | 0.00 | 15.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 356 | Isophorone #(T3) | 0.00 | 3.13 | 7.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 357 | Ethyl formate #(I) | 0.00 | 3.13 | 6.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 358 | Cyclohexene #(T3) | 0.00 | 3.13 | 9.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 359 | Methylcyclohexane #(T3) | 0.00 | 3.13 | 9.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 360 | 2-Pentanone #(T3) | 0.00 | 3.13 | 8.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 6.13 |
| 361 | 2-chlorobenzoyl Chloride | 0.00 | 2.50 | 5.00 | 0.00 | 26.00 | 3.00 | 3.00 | 0.50 | 6.00 |
| 362 | Phosdrin * #(T3) (Mevinphos) | 0.00 | 5.00 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 363 | TEDP * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 364 | Dinitrocresol * #(T3) | 0.00 | 5.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 365 | EPN * #(T3) | 0.00 | 5.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 366 | Endrin * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 367 | Difethialone (T3 based on warfarin) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 368 | Heptachlor * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 369 | Tetryl * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 370 | Dimethyl 1,2-dibromo 2,2-dichlorethyl phosphate #(I) | 0.00 | 5.00 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 371 | Benzoyl peroxide* #(T3) | 0.00 | 0.00 | 22.00 | 2.00 | 70.00 | 4.00 | 6.00 | 0.00 | 6.00 |
| 372 | Methoxychlor * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 373 | 2,4,5-T * #(T3) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 374 | ANTU * #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 375 | Difluorodibromomethane #(I) | 0.00 | 5.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 376 | 1,1,1,2-Tetrachloro 2,2-difluoroethane #(I) | 0.00 | 5.00 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 377 | 1,1,2,2-Tetrachloro 1,2-difluoroethane #(I) | 0.00 | 5.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 378 | Dichloromonofluoromethane #(T3) | 0.00 | 5.00 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 6.00 |
| 379 | TEPP * #(T3) | 0.00 | 4.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.50 | 5.88 |
| 380 | Methyl isocyanate | 3.00 | 4.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.88 |
| 381 | Di-syston #(T3) | 0.00 | 4.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 5.88 |
| 382 | Oxydemeton-methyl #(I) | 0.00 | 4.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 5.88 |
| 383 | Epichlorohydrin #(I) | 0.00 | 1.88 | 15.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 384 | Diketene | 2.00 | 3.88 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.88 |
| 385 | Cyanogen T3 | 3.00 | 4.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.88 |
| 386 | Hexachlorobenzene | 0.00 | 4.38 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 5.88 |
| 387 | Tetranitromethane | 3.00 | 4.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.88 |
| 388 | Acetyl Chloride *T3 | 0.00 | 1.88 | 10.00 | 1.00 | 37.00 | 3.00 | 4.00 | 0.00 | 5.88 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 389 | Methyl acrylate #(T3) | 96-33-3 | 150.00 | 2.00 | 1.88 | 65.00 | 3.00 | 1.05 | 0.45 |
| 390 | Vinyl acetate monomer-E3* | 108-05-4 | 500.00 | 2.00 | 1.88 | 83.00 | 3.00 | 1.05 | 0.17 |
| 391 | Ethyl acrylate | 140-88-5 | 240.00 | 2.00 | 1.88 | 29.30 | 3.45 | 1.21 | 0.15 |
| 392 | Methyl methacrylate | 80-62-6 | 570.00 | 2.00 | 1.88 | 29.00 | 3.50 | 1.22 | 0.06 |
| 393 | Perchloryl fluoride #(T3) | 7616-94-6 | 100.00 | 3.00 | 1.88 | 8943.90 | 0.64 | 0.22 | 20.01 |
| 394 | Furan T3 | 110-00-9 | 19.00 | 3.00 | 1.88 | 493.00 | 2.30 | 0.80 | 20.87 |
| 395 | Crotonaldehyde | 4170-30-3 | 14.00 | 3.00 | 1.88 | 19.00 | 2.41 | 0.84 | 1.14 |
| 396 | 1,3- pentadiene-R*B97 | 504-60-9 | 280.00 | 2.00 | 1.88 | 380.00 | 2.35 | 0.82 | 1.12 |
| 397 | Vinyl chloride-T3* | 75-01-4 | 20000.00 | 0.00 | 1.88 | 2515.60 | 2.20 | 0.77 | 0.10 |
| 398 | Methyl ether-T3* | 115-10-6 | 60000.00 | 0.00 | 1.88 | 4780.00 | 1.62 | 0.57 | 0.05 |
| 399 | Difluoroethane T3 | 75-37-6 | 75000.00 | 0.00 | 1.88 | 4499.20 | 2.40 | 0.84 | 0.05 |
| 400 | Methylphenyldichlorosilane-T3* | 149-74-6 | 2.56 | 4.00 | 3.75 | 0.37 | 6.60 | 2.31 | 0.33 |
| 401 | Sodium borohydride #(T3) | 16940-66-2 | 4.85 | 4.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 402 | Iodine pentafluoride R | 7783-66-6 | 98.07 | 3.00 | 3.75 | 22.00 | 0.00 | 0.00 | 0.00 |
| 403 | Allyl glycidyl ether #(I) | 106-92-3 | 50.00 | 3.00 | 3.75 | 3.60 | 3.94 | 1.38 | 0.10 |
| 404 | Dibutyl phosphate #(T3) | 107-66-4 | 30.00 | 3.00 | 3.75 | 1.00 | 7.25 | 2.53 | 0.08 |
| 405 | Aluminum bromide, anydrous as AlCl3 | 7727-15-3 | 44.84 | 3.00 | 3.75 | 1.00 | 0.00 | 0.00 | 0.00 |
| 406 | p-tert-Butyltoluene #(I) | 98-51-1 | 100.00 | 3.00 | 3.75 | 0.65 | 4.60 | 1.61 | 0.01 |
| 407 | Germane T3 | 7782-65-2 | 150.00 | 2.00 | 0.63 | 32994.12 | 2.66 | 0.93 | 204.58 |
| 408 | Demeton * #(T3) (Systox) | 8065-48-3 | 0.95 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 409 | Aldrin * #(T3) | 309-00-2 | 1.68 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 410 | Dieldrin * #(T3) | 60-57-1 | 3.21 | 4.00 | 5.00 | 0.00 | 13.20 | 4.62 | 0.00 |
| 411 | Mercuric Salicylate #(T3 of Hg) | 5970-32-1 | 1.08 | 4.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 412 | Allyl alcohol | 107-18-6 | 20.00 | 3.00 | 2.50 | 23.80 | 2.00 | 0.70 | 0.83 |
| 413 | Propionitrile-T3* | 107-12-0 | 37.00 | 3.00 | 2.50 | 40.00 | 1.90 | 0.66 | 0.72 |
| 414 | Boron trifluoride compound with methyl ether (1:1) T3 | 353-42-4 | 7.50 | 4.00 | 2.50 | 46.50 | 3.93 | 1.37 | 8.52 |
| 415 | Ethyltrichlorosilane T3 | 115-21-9 | 6.00 | 4.00 | 2.50 | 27.00 | 5.60 | 1.96 | 8.81 |
| 416 | Azinphos-ethyl *T3 | 2642-71-9 | 10.63 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 417 | Trimethyl phosphite-T3* | 121-45-9 | 750.00 | 2.00 | 2.50 | 24.00 | 4.30 | 1.50 | 0.05 |
| 418 | Ammonium perchlorate T3 | 7790-98-9 | 104.05 | 2.00 | 2.50 | 0.00 | 0.00 | 0.00 | 0.00 |
| 419 | tert-Butyl acetate #(T3) | 540-88-5 | 1500.00 | 1.00 | 2.50 | 39.75 | 4.00 | 1.40 | 0.04 |
| 420 | Ethyl chloride #(T3) | 75-00-3 | 3800.00 | 0.00 | 2.50 | 1000.00 | 2.22 | 0.78 | 0.20 |
| 421 | Methyl formate #(T3) | 107-31-3 | 4500.00 | 0.00 | 2.50 | 476.00 | 2.07 | 0.72 | 0.08 |
| 422 | Isoproyl chloride-T3* | 75-29-6 | 15000.00 | 0.00 | 2.50 | 444.11 | 2.70 | 0.94 | 0.03 |
| 423 | Antimony Pentafluoride T3 | 7783-70-2 | 8.46 | 4.00 | 4.38 | 10.00 | 2.20 | 0.77 | 0.91 |
| 424 | Phenyl etherbiphenyl mixture (vapor) #(I) | 8004-13-5 | 10.00 | 4.00 | 4.38 | 0.08 | 5.70 | 1.99 | 0.02 |
| 425 | Chlorinated camphene * #(T3) | 8001-35-2 | 11.80 | 3.00 | 4.38 | 0.10 | 0.00 | 0.00 | 0.00 |
| 426 | Xylidine #(T3) | 1300-73-8 | 50.00 | 3.00 | 4.38 | 0.13 | 4.20 | 1.47 | 0.00 |
| 427 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 8003-34-7 | 326.87 | 2.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 428 | Mercury oxycyanide as Hg | 1335-31-5 | 1.08 | 4.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 429 | Dichlorosilane T3 | 4109-96-0 | 75.00 | 3.00 | 1.25 | 1.62 | 3.50 | 1.22 | 0.03 |
| 430 | Tetramethyllead-T3* | 75-74-1 | 4.57 | 4.00 | 1.25 | 22.00 | 6.50 | 2.27 | 10.94 |
| 431 | Acetaldehyde | 75-07-0 | 840.00 | 2.00 | 1.25 | 760.00 | 1.52 | 0.53 | 0.48 |
| 432 | Methoxyflurane #(IDLH of halgenated ethers-general) | 76-38-0 | 2000.00 | 1.00 | 3.75 | 22.50 | 4.70 | 1.64 | 0.02 |
| 433 | Vinylidene fluoride-T3* | 75-38-7 | 12500.00 | 0.00 | 1.25 | 26980.00 | 2.20 | 0.77 | 1.66 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 389 | Methyl acrylate #(T3) | 0.00 | 1.88 | 16.00 | 1.00 | 46.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 390 | Vinyl acetate monomer-E3* | 0.00 | 1.88 | 4.00 | 0.00 | 53.00 | 4.00 | 4.00 | 0.00 | 5.88 |
| 391 | Ethyl acrylate | 0.00 | 1.88 | 16.00 | 1.00 | 40.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 392 | Methyl methacrylate | 0.00 | 1.88 | 17.00 | 1.00 | 48.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 393 | Perchloryl fluoride #(T3) | 3.00 | 4.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.88 |
| 394 | Furan T3 | 3.00 | 4.88 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.88 |
| 395 | Crotonaldehyde | 2.00 | 3.88 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 5.88 |
| 396 | 1,3- pentadiene-R*B97 | 2.00 | 3.88 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 5.88 |
| 397 | Vinyl chloride-T3* | 0.00 | 1.88 | 6.00 | 0.00 | 63.00 | 4.00 | 4.00 | 0.00 | 5.88 |
| 398 | Methyl ether-T3* | 0.00 | 1.88 | 15.00 | 1.00 | 27.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 399 | Difluoroethane T3 | 0.00 | 1.88 | 14.00 | 1.00 | 15.00 | 3.00 | 4.00 | 0.00 | 5.88 |
| 400 | Methylphenyldichlorosilane-T3* | 0.00 | 3.75 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 401 | Sodium borohydride #(T3) | 0.00 | 1.25 | 13.00 | 1.00 | 34.00 | 3.00 | 4.00 | 0.50 | 5.75 |
| 402 | Iodine pentafluoride R | 0.00 | 3.75 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 403 | Allyl glycidyl ether #(I) | 0.00 | 3.75 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 404 | Dibutyl phosphate #(T3) | 0.00 | 3.75 | 6.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 405 | Aluminum bromide, anydrous as AlCl3 | 0.00 | 3.75 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 406 | p-tert-Butyltoluene #(I) | 0.00 | 3.75 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.75 |
| 407 | Germane T3 | 3.00 | 3.63 | 2.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.63 |
| 408 | Demeton * #(T3) (Systox) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 409 | Aldrin * #(T3) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 410 | Dieldrin * #(T3) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 411 | Mercuric Salicylate #(T3 of Hg) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 412 | Allyl alcohol | 0.00 | 2.50 | 6.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 413 | Propionitrile-T3* | 0.00 | 2.50 | 3.00 | 0.00 | 14.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 414 | Boron trifluoride compound with methyl ether (1:1) T3 | 2.00 | 4.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 415 | Ethyltrichlorosilane T3 | 2.00 | 4.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.50 |
| 416 | Azinphos-ethyl *T3 | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 5.50 |
| 417 | Trimethyl phosphite-T3* | 0.00 | 2.50 | 4.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 418 | Ammonium perchlorate T3 | 0.00 | 2.50 | 2.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 419 | tert-Butyl acetate #(T3) | 0.00 | 2.50 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 420 | Ethyl chloride #(T3) | 0.00 | 2.50 | 8.00 | 0.00 | 21.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 421 | Methyl formate #(T3) | 0.00 | 2.50 | 8.00 | 0.00 | 16.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 422 | Isoproyl chloride-T3* | 0.00 | 2.50 | 1.00 | 0.00 | 13.00 | 3.00 | 3.00 | 0.00 | 5.50 |
| 423 | Antimony Pentafluoride T3 | 0.00 | 4.38 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 424 | Phenyl etherbiphenyl mixture (vapor) #(I) | 0.00 | 4.38 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 425 | Chlorinated camphene * #(T3) | 0.00 | 4.38 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 426 | Xylidine #(T3) | 0.00 | 4.38 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 427 | Pyrethrum #(I) - IDLH value in ppm based on MW of 374, which is high end of range in NIOSH PG | 0.00 | 4.38 | 4.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 5.38 |
| 428 | Mercury oxycyanide as Hg | 0.00 | 3.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 5.25 |
| 429 | Dichlorosilane T3 | 0.00 | 1.25 | 12.00 | 1.00 | 12.00 | 3.00 | 4.00 | 0.00 | 5.25 |
| 430 | Tetramethyllead-T3* | 3.00 | 4.25 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 5.25 |
| 431 | Acetaldehyde | 0.00 | 1.25 | 15.00 | 1.00 | 49.00 | 3.00 | 4.00 | 0.00 | 5.25 |
| 432 | Methoxyflurane #(IDLH of halgenated ethers-general) | 0.00 | 3.75 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.50 | 5.25 |
| 433 | Vinylidene fluoride-T3* | 2.00 | 3.25 | 2.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 5.25 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 434 | Nitroglycerin #(T3) | 55-63-0 | 8.07 | 4.00 | 0.63 | 0.00 | 7.84 | 2.74 | 0.00 |
| 435 | 1,2,3-Trichloropropane #(T3) | 96-18-4 | 100.00 | 3.00 | 3.13 | 2.00 | 5.08 | 1.78 | 0.04 |
| 436 | Phenyl glycidyl ether #(I) | 122-60-1 | 100.00 | 3.00 | 3.13 | 0.01 | 4.37 | 1.53 | 0.00 |
| 437 | Isobutyronitrile-E3* | 78-82-0 | 200.00 | 2.00 | 3.13 | 32.10 | 2.38 | 0.83 | 0.13 |
| 438 | n-Butyl mercaptan #(T3) | 109-79-5 | 500.00 | 2.00 | 3.13 | 35.00 | 3.10 | 1.08 | 0.08 |
| 439 | Turpentine #(T3) | 8006-64-2 | 800.00 | 2.00 | 3.13 | 13.44 | 4.69 | 1.64 | 0.03 |
| 440 | Glycidol #(I) | 556-52-5 | 150.00 | 2.00 | 3.13 | 0.90 | 2.15 | 0.75 | 0.00 |
| 441 | Sulfur pentafluoride #(T3) | 5714-22-7 | 1.00 | 5.00 | 5.00 | 561.00 | 0.00 | 0.00 | 0.00 |
| 442 | Trithion | 786-19-6 | 0.49 | 5.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 443 | Hexachloronaphthalene * #(T3) | 1335-87-1 | 0.15 | 5.00 | 5.00 | 0.00 | 11.60 | 4.06 | 0.00 |
| 444 | Ronnel #(I) | 299-84-3 | 22.81 | 3.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 445 | Trinitrophenol-T3* | 88-89-1 | 8.00 | 4.00 | 1.88 | 1.00 | 7.90 | 2.76 | 0.35 |
| 446 | Mercuric arsenate #(T3 of Hg) | 7784-37-4 | 1.08 | 4.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 447 | Methacrylonitrile-T3* | 126-98-7 | 25.00 | 3.00 | 1.88 | 56.50 | 2.31 | 0.81 | 1.83 |
| 448 | Crotonaldehyde, (E)- T3 | 123-73-9 | 14.00 | 3.00 | 1.88 | 19.00 | 2.41 | 0.84 | 1.14 |
| 449 | Allyltrichlorosilane, stabilized as allyl chloride | 107-37-9 | 20.00 | 3.00 | 1.88 | 22.80 | 6.05 | 2.12 | 2.41 |
| 450 | 2-methylpropene-T3* | 115-11-7 | 100000.00 | 0.00 | 1.88 | 2140.00 | 1.90 | 0.66 | 0.01 |
| 451 | Calcium phosphide SC | 1305-99-3 | 1.80 | 4.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 452 | Chloroacetaldehyde | 107-20-0 | 9.90 | 4.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 |
| 453 | Butyltrichlorosilane SC | 7521-80-4 | 33.00 | 3.00 | 3.75 | 10.00 | 6.50 | 2.27 | 0.69 |
| 454 | 5-Methyl 3-heptanone #(I) | 541-85-5 | 100.00 | 3.00 | 3.75 | 2.00 | 4.40 | 1.54 | 0.03 |
| 455 | Octyltrichlorosilane-A3* (60min) | 5283-66-9 | 33.00 | 3.00 | 3.75 | 0.08 | 8.55 | 2.99 | 0.01 |
| 456 | Cyclopentadiene #(I) | 542-92-7 | 750.00 | 2.00 | 3.75 | 400.00 | 0.00 | 0.00 | 0.00 |
| 457 | Ethyl butyl ketone #(T3) | 106-35-4 | 1000.00 | 2.00 | 3.75 | 4.00 | 3.93 | 1.37 | 0.01 |
| 458 | Methylcyclohexanol #(I) | 25639-42-3 | 500.00 | 2.00 | 3.75 | 2.00 | 3.90 | 1.36 | 0.01 |
| 459 | o-Methylcyclohexanone #(T3) | 583-60-8 | 600.00 | 2.00 | 3.75 | 1.00 | 3.86 | 1.35 | 0.00 |
| 460 | Trifluorochloroethylene-E3* | 79-38-9 | 300.00 | 2.00 | 0.63 | 3940.00 | 4.00 | 1.40 | 18.37 |
| 461 | Methyl acetylene #(T3) | 74-99-7 | 1700.00 | 1.00 | 0.63 | 3952.00 | 1.40 | 0.49 | 1.14 |
| 462 | Tetrafluoroethylene-E3* | 116-14-3 | 10000.00 | 0.00 | 0.63 | 22800.00 | 3.87 | 1.35 | 3.09 |
| 463 | Dinitrotoluene * #(T3) | 25321-14-6 | 6.70 | 4.00 | 2.50 | 1.00 | 6.30 | 2.20 | 0.33 |
| 464 | Phenyltrichlorosilane-T3* | 98-13-5 | 4.62 | 4.00 | 2.50 | 0.45 | 7.36 | 2.57 | 0.25 |
| 465 | Trinitrotoluene | 118-96-7 | 55.32 | 3.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 466 | beta-Chloroprene #(T3) | 126-99-8 | 300.00 | 2.00 | 2.50 | 188.00 | 3.00 | 1.05 | 0.66 |
| 467 | Mesityl oxide #(T3) | 141-79-7 | 1400.00 | 1.00 | 2.50 | 9.00 | 3.40 | 1.19 | 0.01 |
| 468 | 2-Butene T3 | 107-01-7 | 300.00 | 2.00 | 2.50 | 1448.02 | 1.90 | 0.66 | 3.21 |
| 469 | 2-Butene-trans T3 | 624-64-6 | 25000.00 | 0.00 | 2.50 | 1592.00 | 1.94 | 0.68 | 0.04 |
| 470 | 2-Butene-cis T3 | 590-18-1 | 500000.00 | 0.00 | 2.50 | 1414.00 | 2.00 | 0.70 | 0.00 |
| 471 | Pentaborane | 19624-22-7 | 0.70 | 5.00 | 1.25 | 171.00 | 2.20 | 0.77 | 187.91 |
| 472 | Aluminum phosphide *T3 | 20859-73-8 | 8.44 | 4.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 473 | Ethyleneimine | 151-56-4 | 9.90 | 4.00 | 1.25 | 160.00 | 1.48 | 0.52 | 8.36 |
| 474 | Vinylidene chloride, inhibited-T3* | 75-35-4 | 600.00 | 2.00 | 1.25 | 500.00 | 3.25 | 1.14 | 0.95 |
| 475 | Propylene imine | 75-55-8 | 23.00 | 3.00 | 1.25 | 112.00 | 2.00 | 0.70 | 3.41 |
| 476 | Isoprene-T3* | 78-79-5 | 25000.00 | 0.00 | 1.25 | 493.00 | 2.35 | 0.82 | 0.02 |
| 477 | o-Chlorobenzylidene malononitrile * #(T3) | 2698-41-1 | 0.26 | 5.00 | 3.13 | 0.00 | 6.52 | 2.28 | 0.00 |
| 478 | Fluorosulfonic acid T3 | 7789-21-1 | 7.33 | 4.00 | 3.13 | 2.50 | 3.50 | 1.22 | 0.42 |
| 479 | Ethyl phosphonothioic dichloride R | 993-43-1 | 7.50 | 4.00 | 3.13 | 1.45 | 0.00 | 0.00 | 0.00 |
| 480 | Methyl thiocyanate-T3* | 1556-64-9 | 28.40 | 3.00 | 3.13 | 10.00 | 0.00 | 0.00 | 0.00 |
| 481 | Hydrazine | 302-01-2 | 35.00 | 3.00 | 0.63 | 10.00 | 1.10 | 0.38 | 0.11 |
| 482 | Bromine trifluoride T3 | 7787-71-5 | 89.30 | 3.00 | 3.13 | 4.85 | 4.72 | 1.65 | 0.09 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 434 | Nitroglycerin #(T3) | 0.00 | 0.63 | 13.00 | 1.00 | 22.00 | 3.00 | 4.00 | 0.50 | 5.13 |
| 435 | 1,2,3-Trichloropropane #(T3) | 0.00 | 3.13 | 6.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 436 | Phenyl glycidyl ether #(I) | 0.00 | 3.13 | 7.00 | 0.00 | 10.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 437 | Isobutyronitrile-E3* | 0.00 | 3.13 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 438 | n-Butyl mercaptan #(T3) | 0.00 | 3.13 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 439 | Turpentine #(T3) | 0.00 | 3.13 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 440 | Glycidol #(I) | 0.00 | 3.13 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 5.13 |
| 441 | Sulfur pentafluoride #(T3) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 442 | Trithion | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 443 | Hexachloronaphthalene * #(T3) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 444 | Ronnel #(I) | 0.00 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 |
| 445 | Trinitrophenol-T3* | 0.00 | 1.88 | 8.00 | 0.00 | 18.00 | 3.00 | 3.00 | 0.00 | 4.88 |
| 446 | Mercuric arsenate #(T3 of Hg) | 0.00 | 4.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.50 | 4.88 |
| 447 | Methacrylonitrile-T3* | 2.00 | 3.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.88 |
| 448 | Crotonaldehyde, (E)- T3 | 2.00 | 3.88 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.88 |
| 449 | Allyltrichlorosilane, stabilized as allyl chloride | 2.00 | 3.88 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.88 |
| 450 | 2-methylpropene-T3* | 0.00 | 1.88 | 3.00 | 0.00 | 40.00 | 3.00 | 3.00 | 0.00 | 4.88 |
| 451 | Calcium phosphide SC | 0.00 | 3.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 452 | Chloroacetaldehyde | 0.00 | 3.75 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 453 | Butyltrichlorosilane SC | 0.00 | 3.75 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 454 | 5-Methyl 3-heptanone #(I) | 0.00 | 3.75 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 455 | Octyltrichlorosilane-A3* (60min) | 0.00 | 3.75 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 456 | Cyclopentadiene #(I) | 0.00 | 3.75 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 457 | Ethyl butyl ketone #(T3) | 0.00 | 3.75 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 458 | Methylcyclohexanol #(I) | 0.00 | 3.75 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 459 | o-Methylcyclohexanone #(T3) | 0.00 | 3.75 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 4.75 |
| 460 | Trifluorochloroethylene-E3* | 3.00 | 3.63 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 4.63 |
| 461 | Methyl acetylene #(T3) | 2.00 | 2.63 | 4.00 | 0.00 | 7.00 | 2.00 | 2.00 | 0.00 | 4.63 |
| 462 | Tetrafluoroethylene-E3* | 2.00 | 2.63 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 4.63 |
| 463 | Dinitrotoluene * #(T3) | 0.00 | 2.50 | 6.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 464 | Phenyltrichlorosilane-T3* | 0.00 | 2.50 | 1.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 465 | Trinitrotoluene | 0.00 | 0.00 | 11.00 | 1.00 | 17.00 | 3.00 | 4.00 | 0.50 | 4.50 |
| 466 | beta-Chloroprene #(T3) | 0.00 | 2.50 | 4.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 467 | Mesityl oxide #(T3) | 0.00 | 2.50 | 5.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 468 | 2-Butene T3 | 2.00 | 4.50 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 |
| 469 | 2-Butene-trans T3 | 0.00 | 2.50 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 470 | 2-Butene-cis T3 | 0.00 | 2.50 | 1.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 4.50 |
| 471 | Pentaborane | 3.00 | 4.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.25 |
| 472 | Aluminum phosphide *T3 | 0.00 | 1.25 | 2.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 4.25 |
| 473 | Ethyleneimine | 2.00 | 3.25 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.25 |
| 474 | Vinylidene chloride, inhibited-T3* | 0.00 | 1.25 | 2.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.00 | 4.25 |
| 475 | Propylene imine | 2.00 | 3.25 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 4.25 |
| 476 | Isoprene-T3* | 0.00 | 1.25 | 6.00 | 0.00 | 17.00 | 3.00 | 3.00 | 0.00 | 4.25 |
| 477 | o-Chlorobenzylidene malononitrile * #(T3) | 0.00 | 3.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 478 | Fluorosulfonic acid T3 | 0.00 | 3.13 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 479 | Ethyl phosphonothioic dichloride R | 0.00 | 3.13 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 480 | Methyl thiocyanate-T3* | 0.00 | 3.13 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 481 | Hydrazine | 0.00 | 0.63 | 9.00 | 0.00 | 12.00 | 3.00 | 3.00 | 0.50 | 4.13 |
| 482 | Bromine trifluoride T3 | 0.00 | 3.13 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.13 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 483 | Dodecyltrichlorosilane Sc | 4484-72-41 | 33.00 | 3.00 | 3.13 | 1.00 | 4.90 | 1.71 | 0.05 |
| 484 | Nitromethane #(T3) | 75-52-5 | 750.00 | 2.00 | 0.63 | 27.80 | 2.11 | 0.74 | 0.03 |
| 485 | sec-Amyl acetate #(T3) | 626-38-0 | 1000.00 | 2.00 | 3.13 | 7.00 | 4.50 | 1.57 | 0.01 |
| 486 | sec-Butyl acetate #(T3) | 105-46-4 | 1500.00 | 1.00 | 3.13 | 10.00 | 4.00 | 1.40 | 0.01 |
| 487 | 2-Hexanone #(T3) | 591-78-6 | 1600.00 | 1.00 | 3.13 | 2.00 | 3.45 | 1.21 | 0.00 |
| 488 | 1,1-Dichloroethane #(T3) | 75-34-3 | 3000.00 | 0.00 | 3.13 | 182.00 | 3.44 | 1.20 | 0.07 |
| 489 | Tetraethyl lead #(T3) | 78-00-2 | 4.51 | 4.00 | 2.50 | 0.20 | 8.60 | 3.01 | 0.13 |
| 490 | Ethyl nitrite T3 | 109-95-5 | 60.00 | 3.00 | 0.00 | 906.00 | 2.60 | 0.91 | 13.73 |
| 491 | Methyldichlorosilane-R* | 75-54-7 | 1200.00 | 1.00 | 1.88 | 351.04 | 3.97 | 1.39 | 0.41 |
| 492 | Vinyltrichlorosilane-R* | 75-94-5 | 2000.00 | 1.00 | 1.88 | 65.90 | 5.00 | 1.75 | 0.06 |
| 493 | 2-Chloropropylene T3 | 557-98-2 | 35000.00 | 0.00 | 1.88 | 816.00 | 2.60 | 0.91 | 0.02 |
| 494 | Tetramethyl succinonitrile #(I) | 3333-52-6 | 5.00 | 4.00 | 3.75 | 0.01 | 4.70 | 1.64 | 0.00 |
| 495 | Chlordane * #(T3) | 57-74-9 | 5.97 | 4.00 | 3.75 | 0.00 | 14.00 | 4.90 | 0.00 |
| 496 | sec Hexyl acetate #(I) | 108-84-9 | 500.00 | 2.00 | 3.75 | 4.00 | 5.00 | 1.75 | 0.01 |
| 497 | Decaborane * #(T3) | 17702-41-9 | 3.00 | 4.00 | 2.50 | 0.05 | 4.20 | 1.47 | 0.02 |
| 498 | Propyltrichlorosilane-A3* (60 min) | 141-57-1 | 33.00 | 3.00 | 2.50 | 15.20 | 6.12 | 2.14 | 0.99 |
| 499 | Octadecyltrichlorosilane-A3* (60min) | 112-04-9 | 33.00 | 3.00 | 2.50 | 5.00 | 13.39 | 4.68 | 0.71 |
| 500 | Hexyltrichlorosilane T3 | 928-65-4 | 33.00 | 3.00 | 2.50 | 1.25 | 0.00 | 0.00 | 0.00 |
| 501 | Ethylene glycol dinitrate #(I) | 628-96-6 | 12.06 | 3.00 | 2.50 | 0.05 | 5.24 | 1.83 | 0.01 |
| 502 | Amyltrichlorosilane R | 107-72-2 | 500.00 | 2.00 | 2.50 | 2.05 | 7.10 | 2.48 | 0.01 |
| 503 | Vinyl toluene #(I) | 25013-15-4 | 400.00 | 2.00 | 2.50 | 1.10 | 4.08 | 1.43 | 0.00 |
| 504 | Cyclopropane T3 | 75-19-4 | 60000.00 | 0.00 | 2.50 | 4638.62 | 1.46 | 0.51 | 0.04 |
| 505 | Dimethylpropane, 2,2- T3 | 463-82-1 | 50000.00 | 0.00 | 2.50 | 1100.00 | 2.48 | 0.87 | 0.02 |
| 506 | Nitroethane #(T3) | 79-24-3 | 1000.00 | 2.00 | 1.25 | 21.00 | 2.59 | 0.91 | 0.02 |
| 507 | Vinyl ethyl ether-T3* | 109-92-2 | 1500.00 | 1.00 | 1.25 | 560.00 | 2.89 | 1.01 | 0.38 |
| 508 | Propadiene-T3* | 463-49-0 | 4000.00 | 0.00 | 1.25 | 6551.00 | 1.40 | 0.49 | 0.80 |
| 509 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 78-53-5 | 0.30 | 5.00 | 3.13 | 0.01 | 0.00 | 0.00 | 0.00 |
| 510 | Chlorodiphenyl (42% chlorine)* #(T3) | 53469-21-9 | 0.47 | 5.00 | 3.13 | 0.00 | 8.90 | 3.11 | 0.01 |
| 511 | Lithium nitride-T3* | 26134-62-3 | 7.02 | 4.00 | 1.88 | 0.00 | 0.00 | 0.00 | 0.00 |
| 512 | 2-Nitropropane #(T3) | 79-46-9 | 100.00 | 3.00 | 1.88 | 12.90 | 3.06 | 1.07 | 0.14 |
| 513 | Ethyl mercaptan | 75-08-1 | 360.00 | 2.00 | 1.88 | 442.00 | 2.14 | 0.75 | 0.92 |
| 514 | 1,2-Dichloroethylene #(T3) | 540-59-0 | 1000.00 | 2.00 | 1.88 | 223.00 | 3.34 | 1.17 | 0.26 |
| 515 | Isopropyl glycidyl ether #(I) | 4016-14-2 | 400.00 | 2.00 | 1.88 | 9.40 | 4.15 | 1.45 | 0.03 |
| 516 | 1-Nitropropane #(I) | 108-03-2 | 1000.00 | 2.00 | 1.88 | 7.60 | 3.07 | 1.07 | 0.01 |
| 517 | 1-Chloropropylene R | 590-21-6 | 8000.00 | 0.00 | 1.88 | 507.00 | 0.00 | 0.00 | 0.00 |
| 518 | 1-pentene-T3* | 109-67-1 | 30000.00 | 0.00 | 1.88 | 398.25 | 2.42 | 0.85 | 0.01 |
| 519 | Diethyldichlorosilane R | 1719-53-5 | 4668.58 | 0.00 | 1.88 | 10.00 | 5.41 | 1.89 | 0.00 |
| 520 | 2-Methyl-1-butene-T3* | 563-46-2 | 500000.00 | 0.00 | 1.88 | 516.00 | 2.40 | 0.84 | 0.00 |
| 521 | Diglycidyl ether #(T3) | 2238-07-5 | 10.00 | 4.00 | 1.25 | 0.09 | 3.78 | 1.32 | 0.01 |
| 522 | Magnesium phosphide- Rentokil MSDS* | 12057-74-8 | 2.40 | 4.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 523 | Trinitrochlorobenzene-T3* | 88-88-0 | 24.69 | 3.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 |
| 524 | Vinyl fluoride-T3* | 75-02-5 | 150000.00 | 0.00 | 1.25 | 19119.00 | 1.60 | 0.56 | 0.07 |
| 525 | Vinyl methyl ether-R* | 107-25-5 | 64000.00 | 0.00 | 1.25 | 1052.00 | 2.00 | 0.70 | 0.01 |
| 526 | 1-Chloro-1-nitropropane #(I) | 600-25-9 | 100.00 | 3.00 | 1.88 | 5.80 | 4.26 | 1.49 | 0.09 |
| 527 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 18810-58-7 | 1.38 | 4.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 528 | HMX T3 | 2691-41-0 | 41.28 | 3.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 529 | Ammonium Picrate T3 | 131-74-8 | 24.83 | 3.00 | 0.63 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 483 | Dodecyltrichlorosilane Sc | 0.00 | 3.13 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 484 | Nitromethane #(T3) | 0.00 | 0.63 | 7.00 | 0.00 | 20.00 | 3.00 | 3.00 | 0.50 | 4.13 |
| 485 | sec-Amyl acetate #(T3) | 0.00 | 3.13 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 486 | sec-Butyl acetate #(T3) | 0.00 | 3.13 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 487 | 2-Hexanone #(T3) | 0.00 | 3.13 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 488 | 1,1-Dichloroethane #(T3) | 0.00 | 3.13 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 4.13 |
| 489 | Tetraethyl lead #(T3) | 0.00 | 2.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.50 | 4.00 |
| 490 | Ethyl nitrite T3 | 3.00 | 3.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 4.00 |
| 491 | Methyldichlorosilane-R* | 0.00 | 1.88 | 2.00 | 0.00 | 9.00 | 2.00 | 2.00 | 0.00 | 3.88 |
| 492 | Vinyltrichlorosilane-R* | 0.00 | 1.88 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 3.88 |
| 493 | 2-Chloropropylene T3 | 0.00 | 1.88 | 1.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 3.88 |
| 494 | Tetramethyl succinonitrile #(I) | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.75 |
| 495 | Chlordane * #(T3) | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.75 |
| 496 | sec Hexyl acetate #(I) | 0.00 | 3.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.75 |
| 497 | Decaborane * #(T3) | 0.00 | 2.50 | 2.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 498 | Propyltrichlorosilane-A3* (60 min) | 0.00 | 2.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 499 | Octadecyltrichlorosilane-A3* (60min) | 0.00 | 2.50 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 500 | Hexyltrichlorosilane T3 | 0.00 | 2.50 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 501 | Ethylene glycol dinitrate #(I) | 0.00 | 2.50 | 3.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 502 | Amyltrichlorosilane R | 0.00 | 2.50 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 503 | Vinyl toluene #(I) | 0.00 | 2.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 504 | Cyclopropane T3 | 0.00 | 2.50 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 505 | Dimethylpropane, 2,2- T3 | 0.00 | 2.50 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 3.50 |
| 506 | Nitroethane #(T3) | 0.00 | 1.25 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 3.25 |
| 507 | Vinyl ethyl ether-T3* | 0.00 | 1.25 | 3.00 | 0.00 | 8.00 | 2.00 | 2.00 | 0.00 | 3.25 |
| 508 | Propadiene-T3* | 0.00 | 1.25 | 3.00 | 0.00 | 6.00 | 2.00 | 2.00 | 0.00 | 3.25 |
| 509 | Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate, o,o- T3 | 0.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 |
| 510 | Chlorodiphenyl (42% chlorine)* #(T3) | 0.00 | 3.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.13 |
| 511 | Lithium nitride-T3* | 0.00 | 1.88 | 1.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 512 | 2-Nitropropane #(T3) | 0.00 | 1.88 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 513 | Ethyl mercaptan | 0.00 | 1.88 | 4.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 514 | 1,2-Dichloroethylene #(T3) | 0.00 | 1.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 515 | Isopropyl glycidyl ether #(I) | 0.00 | 1.88 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 516 | 1-Nitropropane #(I) | 0.00 | 1.88 | 3.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 517 | 1-Chloropropylene R | 0.00 | 1.88 | 2.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 518 | 1-pentene-T3* | 0.00 | 1.88 | 3.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 519 | Diethyldichlorosilane R | 0.00 | 1.88 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 520 | 2-Methyl-1-butene-T3* | 0.00 | 1.88 | 1.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 2.88 |
| 521 | Diglycidyl ether #(T3) | 0.00 | 1.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 2.25 |
| 522 | Magnesium phosphide- Rentokil MSDS* | 0.00 | 1.25 | 2.00 | 0.00 | 5.00 | 1.00 | 1.00 | 0.00 | 2.25 |
| 523 | Trinitrochlorobenzene-T3* | 0.00 | 1.25 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 2.25 |
| 524 | Vinyl fluoride-T3* | 0.00 | 1.25 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 2.25 |
| 525 | Vinyl methyl ether-R* | 0.00 | 1.25 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 2.25 |
| 526 | 1-Chloro-1-nitropropane #(I) | 0.00 | 1.88 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.88 |
| 527 | Barium azide, [dry or wetted with < 50 % water] as Na azide T3 | 0.00 | 0.63 | 1.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 1.63 |
| 528 | HMX T3 | 0.00 | 0.63 | 1.00 | 0.00 | 2.00 | 1.00 | 1.00 | 0.00 | 1.63 |
| 529 | Ammonium Picrate T3 | 0.00 | 0.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.63 |

| Rank | Chemical | CAS Number | Toxicity Value (in ppm) | Inhalation Ocular Toxicity Score | Stability Score | Vapor Pressure (between 60-80 F) | Vapor Density (Air = 1) | Vapor Density Score (5pt scaled) | (Vp*VD)/Toxicity |
|---|---|---|---|---|---|---|---|---|---|
| 530 | Ethyl acetylene (as ethylene) | 107-00-6 | 15000.00 | 0.00 | 0.63 | 1201.00 | 1.93 | 0.67 | 0.05 |
| 531 | Vinyl acetylene-R* | 689-97-4 | 105000.00 | 0.00 | 0.63 | 1350.00 | 1.80 | 0.63 | 0.01 |
| 532 | n-Propyl nitrate #(T3) | 627-13-4 | 1160.00 | 1.00 | 1.25 | 18.00 | 3.60 | 1.26 | 0.02 |
| 533 | Diethyleneglycol dinitrate R | 693-21-0 | 0.31 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 534 | Dinitrophenol, Dry or wet T3 | 25550-58-7 (51-28-5) | 3.32 | 4.00 | 0.00 | 0.00 | 6.30 | 2.20 | 0.00 |

| Rank | Chemical | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | DWCP Data | | | | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | # of Countries Producing | Production Score | # of Global Distribution Sites | Distribution Score | Relative Probability Score | Threat Scores | |
| 530 | Ethyl acetylene (as ethylene) | 0.00 | 0.63 | 2.00 | 0.00 | 3.00 | 1.00 | 1.00 | 0.00 | 1.63 |
| 531 | Vinyl acetylene-R* | 0.00 | 0.63 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.63 |
| 532 | n-Propyl nitrate #(T3) | 0.00 | 1.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.25 |
| 533 | Diethyleneglycol dinitrate R | 0.00 | 0.00 | 2.00 | 0.00 | 4.00 | 1.00 | 1.00 | 0.00 | 1.00 |
| 534 | Dinitrophenol, Dry or wet T3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Rank | Chemical | CAS Number | Stability Score | Toxicity/Physical State Score | Toxic (Operational) Hazard Score | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 7782-50-5 | 5.00 | 3.00 | 8.00 | 10.00 | 5.00 | 23.00 |
| 2 | Ammonia | 7664-41-7 | 4.38 | 2.00 | 6.38 | 10.00 | 5.00 | 21.38 |
| 3 | Hydrogen chloride | 7647-01-0 | 4.38 | 3.00 | 7.38 | 10.00 | 0.50 | 17.88 |
| 4 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 3.75 | 3.00 | 6.75 | 10.00 | 0.50 | 17.25 |
| 5 | Hydrogen fluoride | 7664-39-3 | 4.38 | 3.00 | 7.38 | 7.00 | 2.50 | 16.88 |
| 6 | Sulfur dioxide | 7446-09-5 | 5.00 | 3.00 | 8.00 | 6.00 | 0.00 | 14.00 |
| 7 | Cobalt dichloride #(T3) | 7646-79-9 | 5.00 | 2.00 | 7.00 | 6.00 | 0.50 | 13.50 |
| 8 | Hydrogen bromide | 10035-10-6 | 5.00 | 3.00 | 8.00 | 5.00 | 0.00 | 13.00 |
| 9 | Phosgene | 75-44-5 | 4.38 | 4.00 | 8.38 | 4.00 | 0.50 | 12.88 |
| 10 | Nitric oxide #(I) | 10102-43-9 | 5.00 | 3.00 | 8.00 | 4.00 | 0.00 | 12.00 |
| 11 | Bromine | 7726-95-6 | 5.00 | 3.00 | 8.00 | 4.00 | 0.00 | 12.00 |
| 12 | Phosphorus trichloride | 7719-12-2 | 3.75 | 3.00 | 6.75 | 5.00 | 0.00 | 11.75 |
| 13 | Boron trifluoride * | 7637-07-2 | 4.38 | 3.00 | 7.38 | 4.00 | 0.00 | 11.38 |
| 14 | Phosphoryl Trichloride | 10025-87-3 | 3.75 | 3.00 | 6.75 | 4.00 | 0.50 | 11.25 |
| 15 | Methyl iodide #(E3) | 74-88-4 | 4.38 | 2.00 | 6.38 | 4.00 | 0.50 | 10.88 |
| 16 | Methyl bromide | 74-83-9 | 4.38 | 2.00 | 6.38 | 4.00 | 0.50 | 10.88 |
| 17 | Mercuric nitrate | 10045-94-0 | 4.38 | 3.00 | 7.38 | 3.00 | 0.50 | 10.88 |
| 18 | Nitrogen dioxide | 10102-44-0 | 5.00 | 3.00 | 8.00 | 2.00 | 0.50 | 10.50 |
| 19 | Tributyl phosphate #(T3) | 126-73-8 | 4.38 | 2.00 | 6.38 | 4.00 | 0.00 | 10.38 |
| 20 | Hydrogen sulfide | 7783-06-4 | 2.50 | 3.00 | 5.50 | 4.00 | 0.50 | 10.00 |
| 21 | Titanium tetrachloride-E3* | 7550-45-0 | 3.75 | 2.00 | 5.75 | 4.00 | 0.00 | 9.75 |
| 22 | Silicon tetrafluoride-T3* | 7783-61-1 | 3.75 | 3.00 | 6.75 | 3.00 | 0.00 | 9.75 |
| 23 | Hexafluoroacetone E3 | 684-16-2 | 3.75 | 3.00 | 6.75 | 3.00 | 0.00 | 9.75 |
| 24 | Tungsten hexafluoride-T3* | 7783-82-6 | 3.75 | 3.00 | 6.75 | 3.00 | 0.00 | 9.75 |
| 25 | Sulfuryl chloride-T3* | 7791-25-5 | 3.75 | 3.00 | 6.75 | 3.00 | 0.00 | 9.75 |
| 26 | Hydrogen iodide T3 | 10034-85-2 | 3.75 | 3.00 | 6.75 | 3.00 | 0.00 | 9.75 |
| 27 | Chlorine dioxide | 10049-04-4 | 2.50 | 3.00 | 5.50 | 4.00 | 0.00 | 9.50 |
| 28 | Fluorine | 7782-41-4 | 2.50 | 3.00 | 5.50 | 4.00 | 0.00 | 9.50 |
| 29 | Toluene-2,4-diisocyanate | 584-84-9 | 3.13 | 2.00 | 5.13 | 4.00 | 0.00 | 9.13 |
| 30 | Methyl chloroformate-T3* | 79-22-1 | 3.13 | 3.00 | 6.13 | 3.00 | 0.00 | 9.13 |
| 31 | Boron tribromide T3 | 10294-33-4 | 3.75 | 2.00 | 5.75 | 3.00 | 0.00 | 8.75 |
| 32 | Sulfur trioxide-E3* | 7446-11-9 | 3.75 | 2.00 | 5.75 | 3.00 | 0.00 | 8.75 |
| 33 | Germanium tetrafluoride T3 | 7783-58-6 | 3.75 | 3.00 | 6.75 | 2.00 | 0.00 | 8.75 |
| 34 | Arsine | 7784-42-1 | 1.25 | 5.00 | 6.25 | 2.00 | 0.50 | 8.75 |
| 35 | Chloropicrin | 76-06-2 | 3.13 | 3.00 | 6.13 | 2.00 | 0.50 | 8.63 |
| 36 | Propyl chloroformate-T3* | 109-61-5 | 3.13 | 2.00 | 5.13 | 3.00 | 0.00 | 8.13 |
| 37 | Iron, pentacarbonyl- T3 | 13463-40-6 | 2.50 | 3.00 | 5.50 | 2.00 | 0.00 | 7.50 |

| Rank | Chemical | CAS Number | Stability Score | Toxic (Operational) Hazard Score | Probability Section | | Total Score |
|---|---|---|---|---|---|---|---|
| | | | | | Relative Probability Score | Threat Scores | |
| 1 | Chlorine | 7782-50-5 | 5.00 | 8.00 | 10.00 | 5.00 | 23.00 |
| 2 | Ammonia | 7664-41-7 | 4.38 | 6.38 | 10.00 | 5.00 | 21.38 |
| 3 | Hydrogen chloride | 7647-01-0 | 4.38 | 7.38 | 10.00 | 0.50 | 17.88 |
| 4 | Formaldehyde (Formalin solution-37% methanol) E3 | 50-00-0 | 3.75 | 6.75 | 10.00 | 0.50 | 17.25 |
| 5 | Hydrogen fluoride | 7664-39-3 | 4.38 | 7.38 | 7.00 | 2.50 | 16.88 |
| 6 | Sulfur dioxide | 7446-09-5 | 5.00 | 8.00 | 6.00 | 0.00 | 14.00 |
| 7 | Hydrogen bromide | 10035-10-6 | 5.00 | 8.00 | 5.00 | 0.00 | 13.00 |
| 8 | Phosgene | 75-44-5 | 4.38 | 8.38 | 4.00 | 0.50 | 12.88 |
| 9 | Methyl bromide | 74-83-9 | 4.38 | 6.38 | 4.00 | 0.50 | 10.88 |
| 10 | Nitrogen dioxide | 10102-44-0 | 5.00 | 8.00 | 2.00 | 0.50 | 10.50 |
| 11 | Hydrogen sulfide | 7783-06-4 | 2.50 | 5.50 | 4.00 | 0.50 | 10.00 |
| 12 | Sulfur trioxide-E3* | 7446-11-9 | 3.75 | 5.75 | 3.00 | 0.00 | 8.75 |