

U.S. Department  
of Transportation

United States  
Coast Guard



Commandant (G-ECV)  
United States Coast Guard

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COMDTINST M16455.10

COMMANDANT INSTRUCTION M16455.10

Subj: THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT  
(EPCRA), AND POLLUTION PREVENTION (P2)

Ref: (a) Executive Order 12856 - "Federal Compliance with Right-To-Know Laws  
And Pollution Prevention Requirements" (NOTAL)  
(b) COMDTINST 6260.21B, Hazard Communication (HAZCOM) for Workplace  
Materials  
(c) COMDTINST M16478.1B, Hazardous Waste Management Manual  
(d) COMDTINST M4200.13D, Small Purchase Manual

1. PURPOSE. This instruction prescribes policies and procedures for compliance with the Emergency Planning and Community Right-To-Know Act (EPCRA); and it reinforces the concept of Pollution Prevention (P2) as our primary strategy to comply with EPCRA and all environmental regulations. This instruction is intended for all ships and shore activities that store or use hazardous materials.
2. ACTION. Area and district commanders, commanders of maintenance and logistics commands, commanding officers of headquarters units, Commander, Coast Guard Activities Europe, and Commander, Coast Guard Activities Far East shall ensure compliance with the provisions of this instruction.
3. DIRECTIVES AFFECTED. This is a new Instruction. It builds on requirements already established in references (b), (c), and (d).
4. DISCUSSION.
  - a. Executive Order Number 12856 (the Eo) requires all federal agencies to comply with the planning and reporting provisions of the Emergency Planning and Community Right-To-Know Act (EPCRA) and the Pollution Prevention Act (PPA). Further, the EO requires all agencies to implement policies and practices which emphasize **pollution prevention (P2)** in how they achieve compliance with EPCRA, and all other environmental regulations.

4. DISCUSSION cont'd

- b. To put requirements in perspective, the existing HAZCOM program, reference (b), requires that units maintain an inventory listing of "**what**" hazardous material is being used. EPCRA adds the requirement to track "**how much**" hazardous material is being used; and P2 requires that we "**reduce**" the amount of hazardous material that is being used.
- c. This instruction identifies the minimum requirements necessary for compliance with EPCRA. It establishes hazardous materials management and procurement controls as the initial and most fundamental Coast Guard P2 requirements, and it establishes the mechanism to measure the success of our P2 efforts.
- d. Chapter 1 of this instruction provides additional background material and an overview of new requirements. It provides an implementation strategy and a summary of deadline/report dates. It also includes a glossary of terms. **Glossary terms** have been italicized throughout this instruction. The remaining Chapters provide detailed guidance for units to comply with EPCRA/P2 requirements.

5. SCOPE.

- a. This instruction in its entirety applies to all Coast Guard operational and support units that use or store hazardous materials; with several noted exceptions. The exceptions are:
  - (1) Coast Guard units that have strictly administrative functions are exempt from all requirements of this instruction (e.g. Marine Safety Offices, Recruiting Offices, etc).
  - (2) Coast Guard units that are outside the *customs territories* of the United States, shall comply with the P2 requirements of this instruction (Chapters 2-4), but are exempt from the EPCRA planning and reporting requirements (Chapter 5).
  - (3) Coast Guard units and subunits below the Group level shall comply with EPCRA planning and reporting requirements (Chapter 5), but the P2 requirements (Chapters 2-4) are only required at the discretion of the Group Commander.

6. POLICY.

- a. The Coast Guard will use **P2 strategies** to reduce the amount and toxicity of all hazardous materials it stores and uses. We will measure the success of these efforts using the *CG Pollution Prevention Scoring System (P2S2)*. Special emphasis will be placed on reducing the use and storage of *Extremely Hazardous Substances and Toxic Chemicals* as defined by EPCRA 302 and 313.
- b. The Coast Guard will strive to meet EPCRA reporting requirements that individual states may have in addition to federal requirements. In cases where state requirements conflict with the guidance contained in this instruction, units shall consult with their servicing CEU and MLC for guidance, or COMDT(G-ECV-1) in the case of headquarters units.

7. REQUIREMENTS.

- a. Commanding Officers of Coast Guard operational and support units that use or store hazardous materials (Group and above) shall:

7. REQUIREMENTS. cont'd.

- (1) Appoint in writing a unit Pollution Prevention Coordinator (PPC), to coordinate the provisions of this instruction. The provisions of this instruction are closely linked and overlap the existing duties now performed by the unit Environmental Coordinator and Hazardous Waste/Materials Coordinator. The requirements in these program areas may be streamlined into one role, namely the PPC, at the discretion of the unit Commanding Officer.
  - (2) Implement and maintain a Hazardous Materials Management System (HMMS). HMMS facilitates compliance with EPCRA requirements, serves as the baseline to evaluate P2 opportunities, and provides the data to measure the success of P2 efforts.
  - (3) Implement and maintain strict **procurement controls** for the purchase of hazardous materials. As much as 50% of all hazardous wastes that the Coast Guard generates is the result of overstock items. A **Statement of Essential Need** shall accompany all procurement requests for hazardous materials.
  - (4) Annually prepare the P2S2 Report (RCN 16455-1).
  - (5) In the case of a **tenant command**, coordinate with the host command at the *facility* to comply with the *facility's* regulatory planning and reporting requirements under **EPCRA**.
  - (6) In the case of a **host command** or all independently located unit, make EPCRA notifications and submit reports to local and state government agencies as required.
  - (7) Develop a strategy for implementation of this instruction. The strategy shall include designation of an **EPCRA/P2 Implementation Team**.
  - (8) Develop and implement a unit level Pollution Prevention instruction. (Optional). Implementation Team.
- b. Group Commanders shall specify EPCRA/P2 program requirements for subordinate units and subunits that store and use hazardous materials. At a minimum, units and subunits shall:
- (1) In the case of a **tenant command**, coordinate with the host command at the *facility* to comply with the *facility's* regulatory planning and reporting requirements under EPCRA.
  - (2) In the case of a **host command** or all independently located unit, make **EPCRA** notifications and submit reports to local and state government agencies as required.
- c. Commanding Officers of Civil Engineering Units shall:
- (1) Provide technical and administrative **assistance** to units within their AOR to meet the notification and reporting requirements under EPCRA.
  - (2) Maintain a **database** of units within their AOR; identify which units are the host command, which are tenant units supported by the host, and what, if any, sections of EPCRA apply to each.

7. REQUIREMENTS. cont'd.

- d. Commanders of Maintenance and Logistics Commands shall:
- (1) Implement field level EPCRA/P2 **training** programs as developed by COMDT(G-ECV-1).
  - (2) Provide technical and administrative **assistance** to units in their AOR for obtaining *MSDSs* and identifying hazardous materials that contain *EHSs* and *toxic chemicals*.
- e. Commandant, Civil Engineering Division shall:
- (1) Designate by position an **EPCRA/P2 Program Manager**.
  - (2) Provide technical and administrative **assistance** directly to Headquarters units.
  - (3) **Monitor** overall compliance with EPCRA and this instruction.
  - (4) Request Coast Guard **R&D** efforts to identify and evaluate alternative products and technologies.
  - (5) Maintain a current listing, and **publish** a listing of *Extremely Hazardous Substances (EHSs)* and *Toxic Chemicals* relative to EPCRA 302 and 313 compliance, as changes occur.
  - (6) Annually **publish** and distribute to all Coast Guard units, a statistical summary of Coast Guard *P2S2* results.
  - (7) Provide technical assistance to those units that specifically meet **EPCRA 313** reporting requirements including: identifying and applying uniform standards of estimating releases for preparation of TRI Form R reports; coordination of TRI Form R annual submissions, and preparing Facility P2 Plans.
  - (8) Prepare and submit annual EPCRA/P2 **progress reports** to the EPA, as required by Executive Order 12856.
  - (9) Develop a field level EPCRA/P2 **training** program.

8. FORMS/REPORTS.

- (1) The Hazardous Materials Management System (HMMS forms in Chapter 2 of this instruction were created for illustration purposes. Units have the option of adapting the HMMS forms to meet local needs/software systems. Units that choose to use the forms provided in the instruction may reproduce them locally.
- (2) The P2S2 **Report** (RCN 16455-1) shall be reproduced locally from Chapter 3 of this instruction. Reports are due annually on 15 February for the previous calendar year. The first report is due 15 February 1995 for the period 10/1/94 to 12/31/94. Provide an information copy to your servicing MLC and CEU.

8. FORMS/REPORTS. cont'd.

- (3) Regulatory **reporting under EPCRA 302, 303, 304, 311, and 312** requires letter correspondence or completion of specified forms submitted directly to state and local agencies, as discussed in Chapter 5 of this instruction. Only the host command at a CG *facility* prepares and submits these types of correspondence, and only as needed. Host commands may acquire forms by calling their state EPCRA office. See Appendix 3 for a state-by-state listing of contacts. Units shall provide an information copy of such correspondence to their servicing CEU and MLC, or directly to COMDT(G-ECV-1) in the case of a Headquarters unit. Reporting deadlines vary, and are summarized in the Chapter 1 of this instruction.
- (4) COMDT(G-ECV-1) will correspond directly with units that potentially meet EPCRA 313 reporting thresholds. **Units will not report under EPCRA 313 unless specifically directed by COMDT(G-ECV-1).**

/s/ P. A. Bunch  
Chief, Office of Engineering,  
Logistics and Development.

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## CHAPTER 1. Introduction to EPCRA/P2

### A. Background.

1. **Executive Order.** On August 3, 1993, President Clinton signed Executive Order Number 12856 requiring all federal agencies to comply with the planning and reporting provisions of the Emergency Planning and Community Right-To-Know Act (EPCRA) and the Pollution Prevention Act (PPA). The goal of the EO is for federal agencies to set the example for *pollution prevention* (P2) leadership in this country. The EO requires all federal agencies to employ the principles of *pollution prevention* as the primary approach for ensuring compliance with all federal, state and local environmental laws, regulations and requirements. This means that Coast the Guard **must** put policies and practices in place which emphasize P2 as the alternative of "first choice" in how we achieve compliance with new regulations and requirements, ensure compliance with existing regulations and requirements, and return to compliance when violations are identified.
2. **Policy Statement.** The "Commandant's Environmental Policy Statement" is **aligned** with the philosophy of the President as expressed in the EO. The Coast Guard exists to perform its assigned operational missions, and those missions must be executed in the most environmentally sound and safest manner possible. P2 is the means to accomplish our environmental goals.
3. **HAZCOM/EPCRA/P2.** The key to understanding how EPCRA fits into the larger picture of environmental management begins with the Coast Guard's Hazard Communication (HAZCOM) Program, reference (b). The CG HAZCOM Program requires us to maintain an inventory listing of the hazardous materials we use; it requires that we know "**what**" hazardous materials we are using and how to use them safely. EPCRA requires that we also know "**how much**" of these hazardous materials we are using. In the next stage of our environmental development, applying pollution prevention will allow us to "**reduce**" the amount of hazardous materials that we use. The key to effective environmental management requires that we **measure** the amounts and types of hazardous materials that enter our processes.
4. **Total Quality Management.** By employing the principles of TOM into our P2 strategy, product by product, process by process, we will achieve incremental improvements that will minimize our consumption, fugitive emissions, and waste generation of hazardous materials. P2 will improve the quality of our services and lower the operating costs (dollars and workload) of our organization.
5. **Integration.** This instruction describes how the Coast Guard will integrate compliance with the EO into the organizational and procedural framework of environmental management, and guide us toward achieving our P2 goals. This instruction has been constructed in the format of a Coast Guard Manual to facilitate future changes and additions. It has been constructed to accommodate headquarters efforts to consolidate all environmental compliance directives into a single **Coast Guard Pollution Prevention (P2) Manual**.



6. **Administration.** Administration of EPCRA/P2 level cannot be achieved until there is standardization of hazardous materials tracking and reporting procedures throughout the Coast Guard. This instruction is a first step toward that standardization. The requirements set forth in the instruction however are not to be construed so rigidly as to preclude individual unit ingenuity. Comments for improvement to this instruction are welcome, and should be addressed to COMDT(G-ECV-1).
7. **Training.** Because of the aggressive implementation schedule specified in the Executive Order, there has not been enough time to develop and implement formal training programs. This instruction addresses short-term training requirements by incorporating enough information for the majority of Coast Guard units to comply with EPCRA/P2 requirements (e.g. interpretive guidance, chemical lists, sample illustrations, and other pertinent information have been included in the text or in Appendices). In addition, an EPCRA training film will be issued to all units that have potential EPCRA reporting requirements. Also, a "sample" of completed HMMS/P2S2 form(s) for a "typical" unit will be distributed to further illustrate the requirements of this instruction. The training film and the sample illustration will be issued in a separate COMDTNOTE.
8. **Internal Guidance.** This is internal guidance for Coast Guard personnel and is solely intended to promote efficiency and consistency in public service above and beyond the requirements of law or regulation. Any obligations discussed, flow only to the Coast Guard and Coast Guard personnel are expected to exercise broad discretion in performing the functions discussed. The Coast Guard retains the discretion to deviate from or change this guidance without notice. This document creates no duties, standard of care, or obligations to the public and should not be relied upon as a representation by the Coast Guard as to the manner of proper performance in any particular case.

#### **B. Organization of the Instruction.**

1. **General.** EPCRA is a complicated regulation. It becomes even more confusing when you overlay these complex regulatory requirements on the Coast Guard organizational structure (e.g. there is no direct organizational link between host and tenant commands that comprise the facility). Chapter 1 provides general information, conceptual requirements and inter-relationships. The intent is to provide the user of the Instruction some insights to more effectively deal with the complexities.
2. **Specific.** The primary focus of the instruction is P2, the secondary purpose is to provide guidance for EPCRA compliance. Therefore the P2 Chapters precede the EPCRA Chapter as a matter of logical preference. The HMMS (Chapter 2) must be implemented first. It establishes the administrative foundation for the P2 program. Once the HMMS is built, the unit PPC then has a solid basis to control procurement (Chapter 3), and the records to measure success and prepare the P2S2 Report (Chapter 4). The EPCRA guidance (Chapter 5) is very detailed. For many facilities, it may be the only reference material (including the Appendices) needed to comply with the regulations.

C. **Overview of Requirements.**

1. **Pollution Prevention Requirements.** The P2 requirements apply in a straightforward manner to all Coast Guard units (Group and above) that use hazardous materials. Each unit is responsible for implementing and maintaining their own HMMS and procurement controls, and generating their own P2S2 report. Refer to the respective P2 Chapters for further detailed discussion.
2. **EPCRA Requirements.** The EPCRA requirements do not apply in a straightforward manner to individual units (except in the case where the unit is independently located). Rather, the requirements apply if the CG *facility* meets the regulatory storage or use thresholds (hazardous materials stored and used by multiple units). Further, EPCRA is composed of several different Sections. The various sections have different activity thresholds, different exemptions, and different reports/planning requirements. It is not an easy exercise to determine if the EPCRA regulations apply specifically to your unit. It requires close coordination among the commands at a *facility* to determine if thresholds are met. The decision logic is shown in general terms in Figures 1-1 through 1-4.

D. **Implementation Strategy.**

1. **Required/Discretionary.** All Commanding Officers/Officers-in-Charge shall develop a strategy for implementation of this instruction. The strategy shall include designation of an EPCRA/P2 Implementation Team. The team shall consist of a representative from each command at the *facility*. The CO/OIC of the host command shall designate a lead official, to head the planning and implementing effort. The remaining subparagraphs are for illustration purposes, concepts may be adapted to meet local requirements.
2. **Team Charter.** The suggested "charter" for the team is:
  - a. Implement the HMMS/Procurement Controls at each unit;
  - b. Identify what hazardous materials are stored and used at the facility meet EPCRA reporting and planning thresholds.
  - c. Decide how future storage and use information will be communicated between the host and tenant commands, and institutionalize procedures to accomplish this.
  - d. Make initial EPCRA notifications to local agencies as required. institutionalize procedures to accomplish this.
3. **Checklist.** A suggested "checklist" for team activities includes:
  - a. **POAM.** Develop a Plan of Action and Milestones (POAM) that address various elements of the implementation requirements.

Figure 1-1

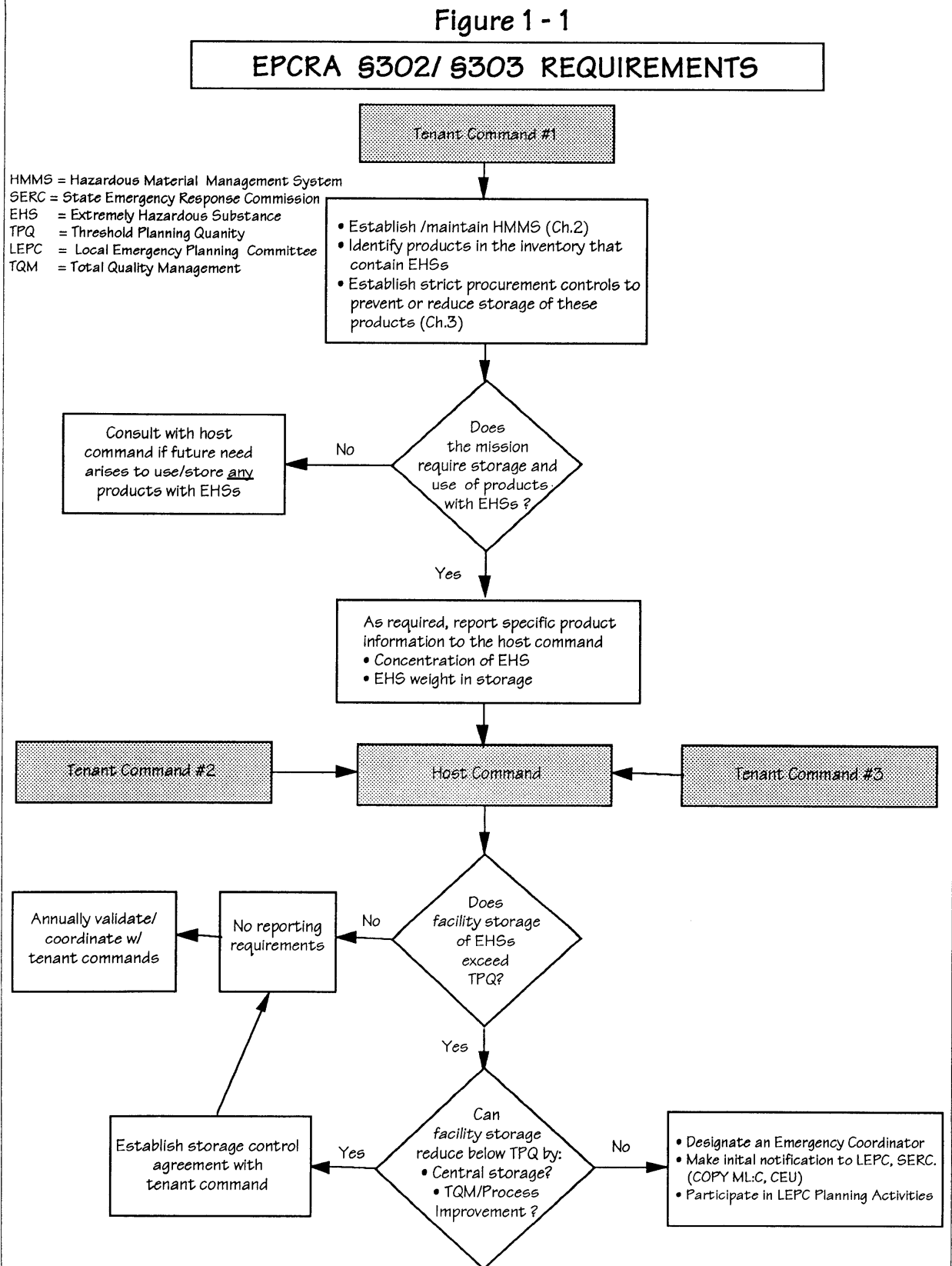


Figure 1-2

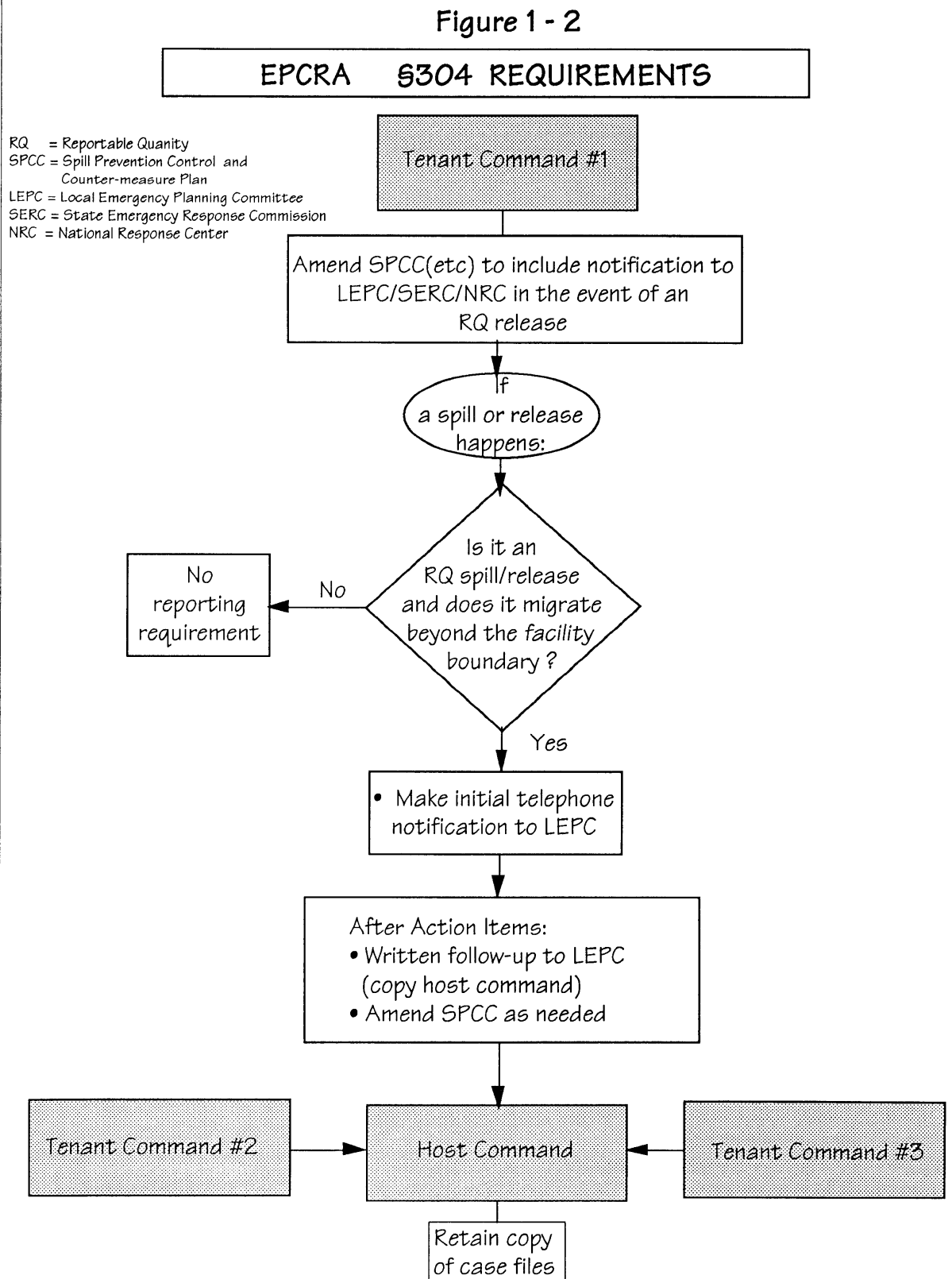


Figure 1-3

Figure 1 - 3

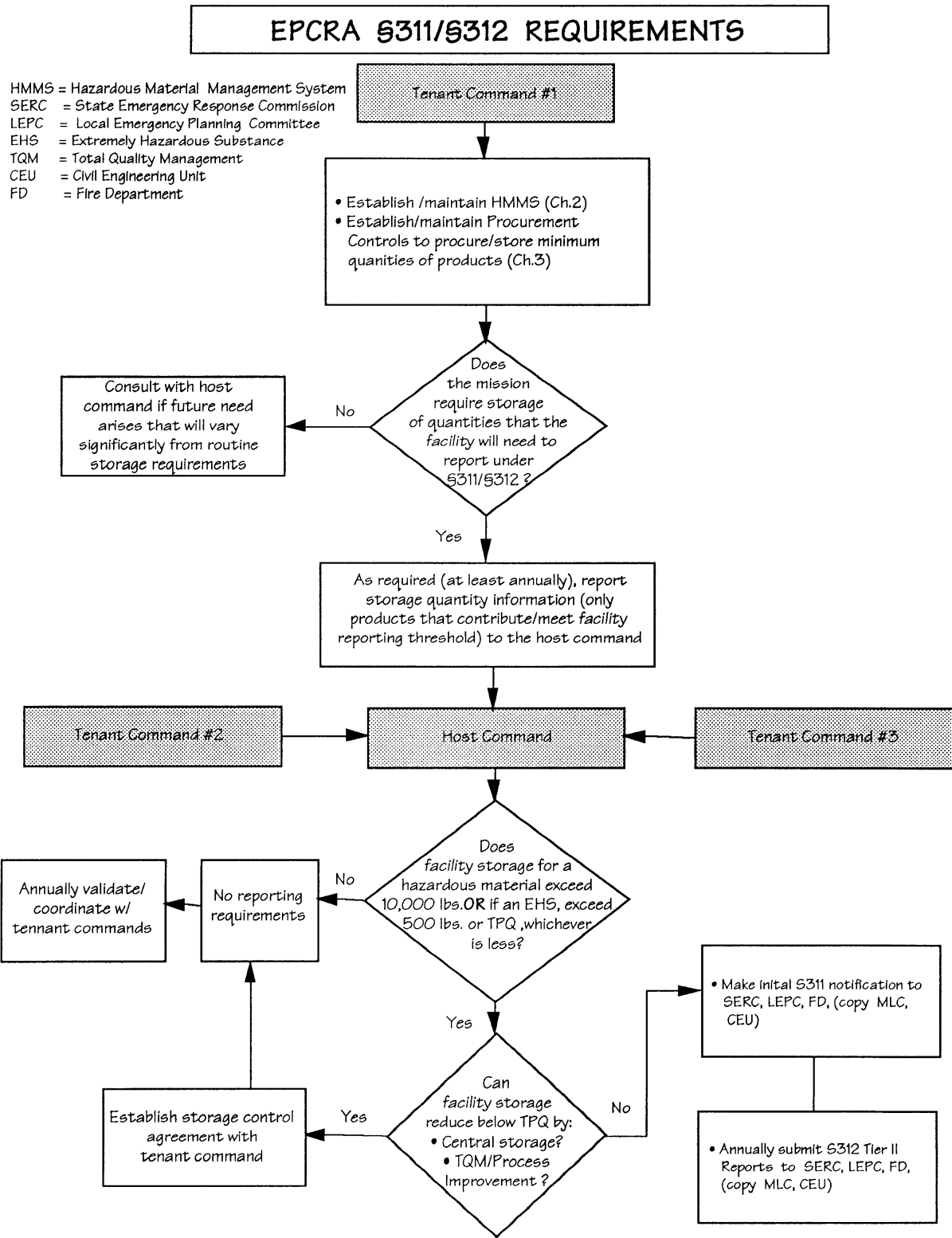
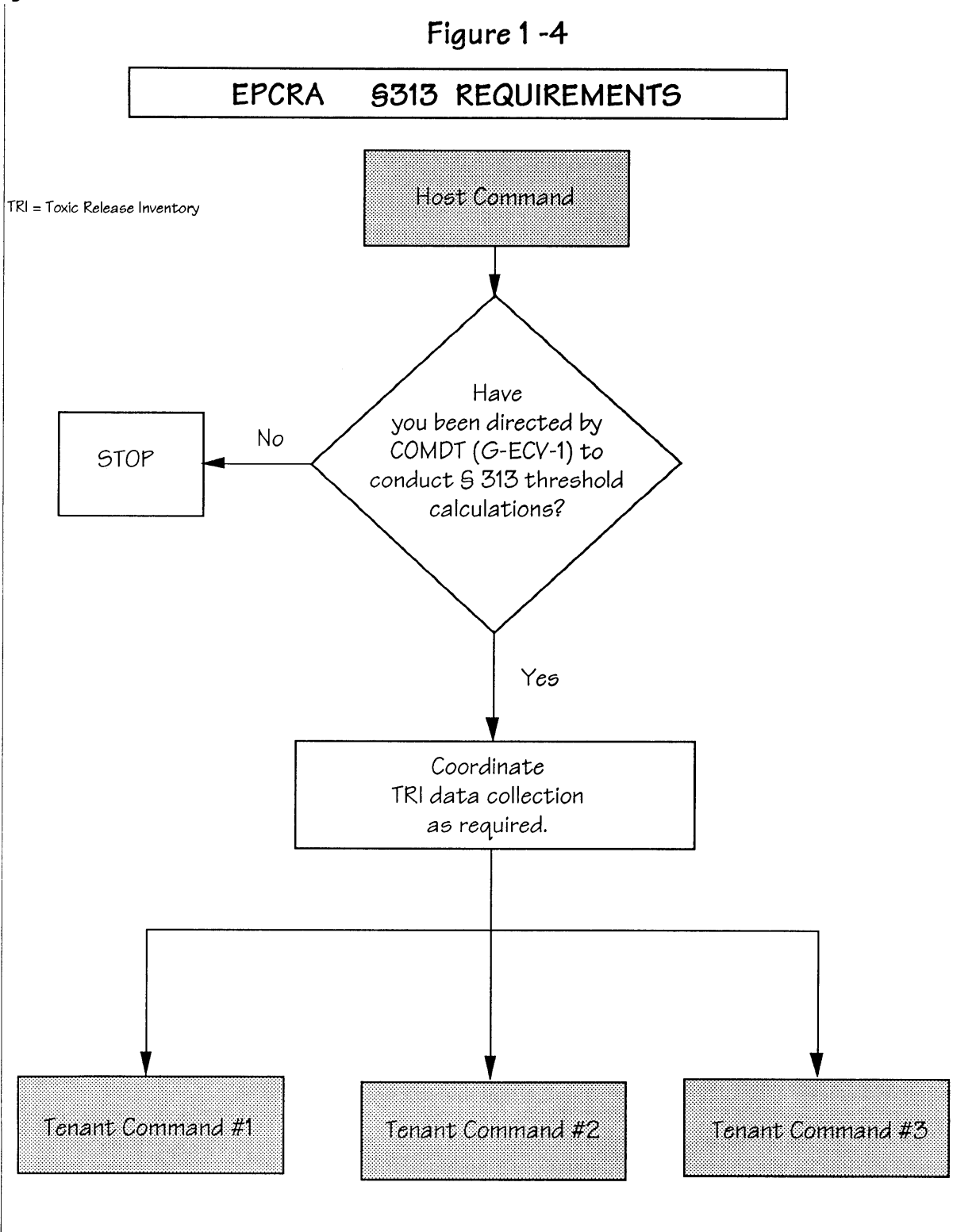


Figure 1-4



b. **HMMS.**

Initiate a physical inventory of hazardous materials in stock, and establish an "Amnesty Period" to clear the decks of unnecessary overstocked items.

Subscribe to and install the HMIS CD ROM system. (See R301604Z JUN94)

Update and re-issue the unit Hazardous Materials Inventory; and create Procurement Logs for each product as required. Insure copies of MSDSs are on file for each hazardous material on the Inventory.

c. **Procurement Control.**

Create or update unit instructions to implement new procurements controls.

d. **EPCRA 302 and 303**

Eliminate the use of *EHSs* OR specify maximum allowable "unit" storage quantities for products that contain *EHSs*. Determine if *facility* storage exceeds *TPQ* for an *EHS*, and make notifications to local agencies accordingly.

Institutionalize how the host and tenant will coordinate *facility* storage quantities of new products that may contain *EHSs*. Establish strict controls and evaluation criteria.

e. **EPCRA 304**

Amend unit SPCC, RCRA Contingency Plans, etc, to include required notifications in the event of an *RQ* release.

f. **EPCRA 311 and 312**

Determine all other products stored in "large volume" at the unit; this is relative, but select some arbitrary threshold to narrow down the number of products to review, e.g. 500 pounds or 50 gallons of a product. Of these "large volume" products does the facility exceed the 10,000 pound storage threshold. (Consider separately products containing *EHSs*).

Specify maximum storage quantities for those products where facility storage is close to regulatory threshold.

Make notifications to local agencies as required. Institutionalize how the host and tenant will annually coordinate the information required to submit Tier II reports.

g. **EPCRA 313**

Consistent with CG P2 goals, appropriately record in the HMMS all products that contain *toxic chemicals*; and focus P2 efforts in minimizing their storage and use; establish independent QATs as appropriate to study specific uses or processes.

Typically, CG facilities will not have TRI reporting requirements; those that may, will be targeted specifically by COMDT(G-ECV-1), to conduct further comprehensive review and analysis. Those that are contacted, should be aware that guidance regarding 313 may be somewhat complex and vague. It is highly recommended that facilities follow a strategy of determining all large volume uses of toxic chemicals, and then rank the uses of each chemical as follows: 313 "clearly does apply"; "might apply"; and "clearly does not apply". The job of tracking down definitive clarifications may be avoided, if counting all "clearly does apply" and the "might apply" uses, the chemical still does not meet threshold.

h. **Train Department Heads in Key Features**

NFPA Hazard Identification System (Optional)  
Waste Codes (Optional)  
Need for the MSDS  
Statement of Essential Need/Procurement Control  
P2 Goals to reduce use and storage of *EHSs* and *toxic chemicals*



**E. Implementation Schedule.**

1. **P2 Requirements.** All P2 requirements set forth in this instruction shall be implemented by 1 October 1994. The first *P2S2 Report* is due 15 February 1995. This first report shall reflect only *HMMS* data for the time period from 1 October 1994 through 31 December 1994. Thereafter, *P2S2 Reports* shall reflect *HMMS* data for a full calendar year, and submitted by 15 February for the previous calendar year.
2. **EPCRA Requirements.** The following is a summary of reporting deadlines specified in the Executive Order. Host commands shall prepare reports and meet reporting deadlines, as required (e.g. the *facility* meets reporting threshold).

<u>EPCRA</u>	<u>Due Date</u>	<u>Requirements</u>
304	1/1/94	Report <i>RQ</i> spills to <i>SERC</i> , <i>LEPC</i> , and the <i>NRC</i> . Written follow-up to <i>LEPC</i> and <i>SERC</i> . (Ref: ALCOAST 004/94)
313	1/1/94	Track <i>toxic chemical</i> use/release for CY94. Toxic Release Inventory Report ( <i>TRI</i> ) for CY94 is due 7/1/95. <i>TRI</i> reporting is limited to specific units designated by COMDT.
302	3/2/94	Facility notifies <i>LEPC</i> and <i>SERC</i> of <i>EHSs</i> in excess of <i>TPQ</i> . (Ref: ALCOAST 004/94)
303	8/2/94	Designate facility coordinator to interface with <i>LEPC</i> . Provide <i>LEPC</i> with data for their Emergency Response Plan. Applies only if host command reports under 02.
311	8/2/94	Submit Inventory to local Fire Depts., <i>LEPC</i> , and <i>SERC</i> for hazardous products that meet the threshold. This is a onetime reporting requirement.
312	3/1/95	First annual <i>Tier II</i> report submitted to <i>LEPC</i> and <i>SERC</i> for materials meeting the threshold.

## F. Acronyms and Glossary of Terms.

1. **Customs Territories.** Custom territories are defined as all territories and possessions of the United States except: the Virgin Islands, American Samoa, Wake Island, Midway Islands, Kingman Reef, Johnston Island, and the Island of Guam.
2. **EPCRA.** Emergency Planning and Community Right-To Know Act of 1986. On December 4, 1984, a cloud of methyl isocyanate gas escaped from a Union Carbide chemical plant in Bhopal, India. Exposure to this deadly gas resulted in more than 2,500 deaths, and tens of thousands of injuries, some permanently disabling. This "Bhopal Incident", coupled with a similar, but nonfatal, and less destructive chemical release in Institute, West Virginia prompted implementation of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). This legislation was implemented at the same time that CERCLA was being reauthorized. EPCRA was enacted under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), and is often referred to as SARA Title III.
3. **EPCRA HOTLINE.** 1-800-535-0202. A service provided by the EPA to answer any technical or regulatory questions regarding EPCRA. They will also provide various EPA publications and forms upon request. Hours of operation are 8:30 AM to 7:30 PM Eastern time. Other points of contact for information include the EPA Regional Offices, LEPC, SERC, and local Fire Department.
4. **EHS.** Extremely Hazardous Substance. In the text of EPCRA 302, an EHS is any substance listed by the EPA in 40 CFR 355. This list gives focus to the SERCs and LEPCs in their emergency planning efforts.
5. **CERCLA.** Comprehensive Environmental Response, Compensation and Liability Act as amended. The Statute that regulates reporting the release of hazardous substances into the environment, the cleanup of Federal hazardous waste sites, and the cleanup of National Priority List (Superfund) sites.
6. **Facility.** A "facility" includes the host command and all tenant commands located within a geographic boundary (the traditional fenceline concept recognized by EPA). This means all buildings, equipment, structures and other stationary items which are located on a single site or contiguous or adjacent sites. EPCRA requirements regarding the storage and use of hazardous materials also applies to vessels and aircraft when they are on-site at their homeport/base facility. There shall be one "facility" report from the host command, not separate reporting by tenant commands.
7. **Hazard Category** under the OSHA standard, is any of the following:  
Immediate (acute) health hazard, including highly toxic, irritant, sensitizer, corrosive, and other hazardous chemicals that cause all adverse effect to a target organ, usually occurring rapidly as a result of short term exposure, and is of short duration;

Delayed (chronic) health hazard, including carcinogens and other hazardous chemicals that cause an adverse effect to a target organ, generally occurring as a result of long term exposure, and is of long duration.

Fire hazard, including chemicals designated flammable, combustible, pyrophoric, and oxidizing;

Sudden release of pressure, including explosives and compressed gas; and

Reactive, including chemicals designated unstable reactive, organic peroxide, and water reactive.

8. **Hazardous Material.** Any substance that poses a physical or health hazard. Office supplies and common consumer products for housekeeping or janitorial uses are exempt from the CG HAZCOM program, and the EPCRA/P2 program. Otherwise, for purposes of this COMDT instruction, if a product is required to have a Material Safety Data Sheet (MSDS) under the OSHA standard, it shall be considered a hazardous material.
9. **HMIS.** Hazardous Materials Information System. More than 60,000 MSDSs are available through the DOD's Defense Logistics Agency HMIS, available on CD ROM. Units not having access to the DOD HMIS hardware may contact their respective MLC(k) to obtain HMIS MSDSs, or units may pursue installation of the HMIS hardware by submitting a request to MLC(k). Special notes about HMIS MSDSs related to EPCRA:

In the "ingredients" field, the MSDS may have the following notation "SARA III". This designation means the product contains an *EHS*, or it contains a *toxic chemical*. If so noted, the unit should contact the vendor or manufacturer, obtain the published version of the MSDS, and then make the *EHS/toxic chemical determination*. If there is no "SARA III" notation, it may be assumed the product contains no *EHSs or toxic chemicals*.

The MSDS may have a Hazard Identification Rating listed. This rating system is similar to the NFPA Hazard Identification Rating System, and may be entered into appropriate HMMS logs.

10. **MSDS.** Material Data Safety Sheet. The OSHA Standard requires manufactures and suppliers to prepare MSDSs that convey various physical data and safety information about the products or chemicals they market. In addition, suppliers have a regulatory obligation to make notification if the product contains *EHSs or toxic chemicals*. If such information is not on the MSDS or provided by some other means, it may be assumed the product does not contain these chemicals. If the product contains *EHSs or toxic chemicals*, the following information must be provided by the supplier:

A statement that the mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of EPCRA.

The name of each toxic chemical and the associated Chemical Abstracts Service (CAS) registry number of each chemical as applicable.

The percentage, by weight, of each toxic chemical contained in the mixture or trade name product.

11. **LEPC.** Local Emergency Planning Committee. The LEPCs are the local government planning and preparedness component of EPCRA. In many States, LEPCs have been established at the County level of government. The LEPC is broadly representative of the community and includes members from each of five constituent groups: elected officials; law enforcement/civil defense/firefighters; health/environmental/transportation officials; community groups/news media; and commerce/industry. Each LEPC is responsible for:

Receiving EPCRA information reported by the local regulated community, and responding to requests from the public for that information.

Developing a plan to prepare for and respond to chemical release emergencies.

Providing public participation in emergency planning and preparedness activities.

12. **NFPA.** National Fire Protection Association. The NFPA Hazard Identification System is a diamond-shaped diagram or placard that gives, at a glance, a general idea of the inherent hazards associated with a chemical, and the order of severity of these hazards under emergency conditions. The diamond shape is color coded; a full explanation is provided in Exhibit 1-6.
13. **NRC.** National Response Center. 1-800-424-8802. A 24 hour communications center, operated by CG Headquarters which receives reports of chemical spills, and directs information to emergency response organizations.
14. **Pollution Prevention (P2).** Pollution prevention means *source reduction* and other practices that reduce or eliminate the creation of pollutants. Source reduction means any practice which reduces the amount of any hazardous substance, pollutant, or contaminant entering any waste stream or otherwise released into the environment (including fugitive emissions) prior to recycling, treatment, or disposal. Other practices may include increased efficiency in the use of raw materials, energy, water, or other resources; or protection of natural resources by conservation.
15. **PPA.** Pollution Prevention Act of 1990. The PPA establishes the hierarchy of P2 efforts for the nation:

*The Congress hereby declares it to be the national policy of the United States that pollution should be prevented or reduced at the source whenever feasible; pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible; pollution that cannot be prevented or recycled should be treated in an environmentally safe manner, whenever feasible; and disposal or other releases to the environment should only be employed as a last resort and should be conducted in an environmentally safe manner.*

This hierarchy is adopted as the official policy of the Coast Guard.

16. **PPC.** Unit Pollution Prevention Coordinator. This is the person designated in writing by the OIC or Commanding Officer to coordinate the unit's various environmental programs. Pollution prevention is the focus of our environmental efforts.
17. **P2S2.** Pollution Prevention Scoring System. The system adopted by the CG to measure the relative success of pollution prevention efforts. Basic elements include the pounds of hazardous material consumed and the number of products in the hazardous materials inventory. Scores derived from pounds consumed are adjusted for the relative environmental hazard of chemical constituents.

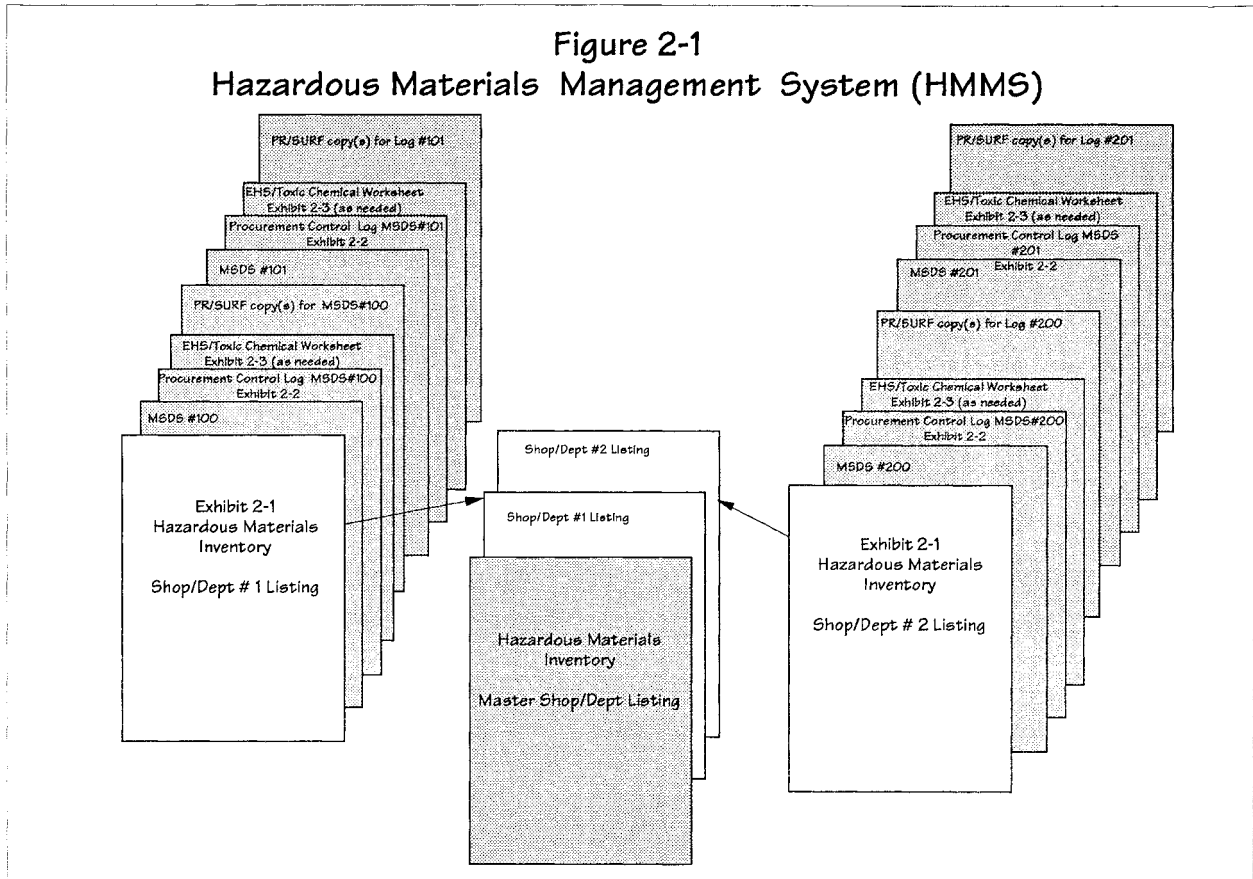
18. **RQ.** Reportable Quantity. The amount of a CERCLA hazardous substance or EHS, that if released beyond the facility boundary, must be reported to the LEPC, SERC, and NRC.
19. **Release.** Release means any spilling or emitting into the environment of any EHS or CERCLA hazardous substance.
20. **SERC.** State Emergency Response Commission. SERCs vary widely from State to State. They act primarily as a clearinghouse of information for State and Local governments, the regulated community, and the public (including citizen, environmental, or special-interest groups). SERCs also provide leadership directly to their LEPCs. This information and leadership activity includes:
  - Planning for chemical emergencies.
  - Accepting emergency notifications of chemical accidents and releases.
  - Receiving/maintaining databases of reports of hazardous chemical inventories.
  - Receiving, processing, and analyzing toxic chemical release reporting.
  - Providing training and community outreach to local governments, the regulated community, and the public.
21. **SARA Title III.** Title III, or the third part of the Superfund Amendments and Reauthorization Act of 1986. Synonymous with EPCRA.
22. **Source Reduction.** Source reduction includes equipment or technology modifications, reformulation or redesign of products, substitution of raw materials, and improvements in housekeeping, maintenance, training, or inventory control. Source reduction does not include any practice which alters the physical, chemical, or biological characteristics or the volume of a hazardous substance, pollutant, or contaminant through a process or activity which itself is not integral to and necessary for the production of a product or the providing of a service.
23. **SURF SHEET.** Simplified Unit Requisition Form. This form is used to order materials through the Federal Stock System.
24. **TIER II Form.** A form that is completed annually and submitted to the local fire department, LEPC, and SERC. This report is required by EPCRA 312, to be submitted by facilities that meet specific hazardous material and EHS storage criteria.
25. **Toxic Chemicals.** The term toxic chemicals has specific meaning, and refers to the EPCRA 313 list of chemicals. The 313 list of toxic chemicals is specified in 40 CFR 372 and will be published by G-ECV-1 as updates occur (Appendix 1).
26. **TPQ.** Threshold Planning Quantity. The amount of an EHS present at a facility which requires the facility to give emergency planning notification to the SERC and LEPC.
27. **TRI.** Toxic Release Inventory. A national inventory of annual toxic chemical releases from facilities that meet certain use, processing, or manufacturing criteria. The form used to submit information is the TRI form R. This is a reporting requirement of EPCRA 313.

## CHAPTER 2. Hazardous Materials Management System (HMMS)

### A. General.

1. **HMMS Definition.** The Hazardous Materials Management System (HMMS) is any organized method to record data about the hazardous materials used your location. The methods, format, and amount of data recorded varies depending on the your need and use for the information. The HMMS can be as sophisticated as a centrally managed, completely integrated computer system that tracks procurement, issue, and wastes. A host of features can be designed into the system such as: links to MSDS data bases; barcode labeling for inventory control; and system security to allow materials issue only to pre-authorized personnel. At the other extreme, your HMMS can be as simple as handwritten or word processor logs.
2. **Type of HMMS.** All Coast Guard units covered by this instruction are required to implement a HMMS. What works best for your unit, depends on the amount of information that needs to be processed. A small unit can meet information requirements using handwritten or word processor logs. Large units may take advantage of the economies of scale, and support an automated system. The type of HMMS implemented at the unit level is left to the discretion of the unit commander; however, it shall meet minimum information requirements set forth in this chapter. The HMMS forms created in this Chapter are for illustration purposes; units may use the forms "as is", adapt them, or create new forms, as long as minimum data requirements are met.
3. **Measurement at the Source.** The minimum measurement requirements of the HMMS are for hazardous material "product" and "procurement" information. Measurement occurs at the "source", commonly thought of as the "beginning of the pipe"; in contrast to measurement of the "wastes generated" at the "end of the pipe". This is consistent with the philosophy of P2, which focusses efforts at the "source", where hazardous materials enter our processes.
4. **Illustration.** The HMMS process is illustrated in Figure 2-1.

Figure 2-1



**B. Data Requirements.**

1. **Minimum Data Requirements.** The existing CG HAZCOM Program, reference (b), currently requires 4 data elements to be tracked for each hazardous material that is used at a CG unit. This instruction adds 4 additional data elements. The 4 new data elements are necessary to comply with minimum requirements of EPCRA, and to satisfy the Coast Guard P2S2 measurement system. The 8 **minimum** data elements to be tracked for **each** hazardous material are:
  - a. Existing 4 data elements required by the CG HAZCOM Program:
    - Product name
    - Manufacturer's name and address
    - FSN/NSN
    - Use location (e.g. what shop or dept.)
  - b. Additional 4 data elements required by this COMDT instruction:
    - Contains EHS constituents (Yes/No)
    - Contains Toxic Chemical constituents (Yes/No)
    - Pounds of product purchased annually
    - Cost of products purchased annually
2. **Supplemental Data Requirements.** Supplemental data tracking may be necessary or desirable depending on the circumstances at the *CG facility*. For example, a *CG facility* may consist of the host command and several tenant commands using products containing *EHSs*. If *EHSs* are used at a *CG facility*, the *facility* (host command) will have a reporting requirement if the *EHSs* are stored in excess of the *Threshold Planning Quantity (TPQ)*. Specific product detail will be required to determine if the *TPQ* is exceeded. The host command and tenant commands can negotiate agreements to limit the amount of product stored to insure that *TPQs* are not exceeded, and thus eliminate EPCRA reporting. The HMMS forms developed in this instruction are designed to capture this information. **Supplemental** data elements include:
  - Product detail
    - Listed *EHS* and *toxic chemical* constituents
    - CAS Numbers
    - Concentrations by weight
    - *Threshold Planning Quantities (TPQs)*
  - Maximum storage quantity
3. **Optional Data.** The following data elements are strictly optional. Their use is solely an enhancement that provides shop/department level personnel with summarized information regarding relative hazards and proper waste management procedures for the products they use. They are presented as an option because some units use this coding system and find it beneficial. It is recognized that not all units have a need to capture this detail.
  - NFPA/HMIS* Hazard Ratings
  - Waste Disposal Codes



4. **EPCRA 313 Data Requirements.** This requirement potentially, applies to large Coast Guard shore *facilities* and in special isolated cases. These *CG facilities*, because of their size and scope of operations, may meet EPCRA 313 reporting thresholds. Large facilities are loosely defined as Air Stations, Support Centers, Headquarters units, and units that have Industrial Support activities. **MOST CG UNITS WILL NOT MEET THE EPCRA 313 REPORTING THRESHOLDS.** In cases where the thresholds are met, there will be a need to track specific uses of *toxic chemicals* and their associated releases (See Chapter 5, Section F for a more detailed discussion). As such, data tracking will need to be **custom tailored** by the *CG facility* to specifically meet *TRI Form R* reporting requirements. The detail of specific *TRI Form R* data tracking requirements is beyond the scope of this instruction; COMDT(G-ECV-1) will correspond directly with units that potentially meet EPCRA 313 reporting threshold.

### C. Recording Data.

Basic HMMS forms and procedures are provided in Exhibits (2-1 through (2-6) of this chapter, and a brief explanation of each follows. Exhibits (2-1), (2-2), and (2-3) are forms that will assist those units that choose to implement handwritten or word processor logs. The forms are designed to capture and integrate HAZCOM/EPCRA/P2 data. Units are free to upgrade to a computer spreadsheet application or other automated systems, as long as the minimum data elements are captured. Exhibits (2-4), (2-5), and (2-6) are reference material.

1. **Hazardous Material Inventory (Exhibit 2-1).** This form is an enhanced version of the Hazardous Materials Inventory listing required by the CG HAZCOM Program, reference (b). The form satisfies two purposes; it conveys summarized product safety information to the shop/department personnel who use the hazardous materials, AND it provides convenient summary data for the unit PPC who administers the HAZCOM/EPCRA/P2 program.
2. **Procurement Control Log (Exhibit 2-2).** This form is used to record certain physical data and procurement data about each product. This form satisfies two purposes; it captures the specific data to determine if EPCRA 311 and 312 reporting thresholds are met, and it captures the specific data to complete the CG P2S2 form.
3. **EHS/Toxic Chemical Worksheet (Exhibit 2-3).** This form is a worksheet used to determine if EPCRA 302 and 313 reporting thresholds are met.
4. **Waste Disposal Codes (Exhibit 2-4).** Use of Waste Disposal Codes is strictly **optional**. It provides useful information to shop/dept level personnel about proper waste management. This exhibit explains how the codes may be assigned.
5. **Conversion Factor to Pounds (Exhibit 2-5).** All EPCRA regulatory threshold and reporting criteria are based on weights; namely "**pounds**". Likewise, the P2S2 measurement standard is based on "pounds". This exhibit assists in converting measures of volume to measures of weight. For example, paint is purchased in gallons and must be converted to pounds.
6. **NFPA Hazard Identification System (Exhibit 2-6).** Use of the *NFPA* Hazard Identification System is strictly **optional**. It provides summary information to shop/dept level personnel about the relative hazards of the hazardous materials they are using. This exhibit is a brief explanation about the *NFPA* rating system.

**D. Source of Data.**

1. **Material Safety Data Sheet (MSDS).** The CG HAZCOM Program, reference (b), requires that a *MSDS* be obtained for every hazardous material in the workplace. *MSDSs* must be obtained BEFORE products are purchased (see Chapter 3 Procurement Control, for additional discussion). The *MSDS* is the primary document needed to satisfy the data requirements of the HMMS. *MSDSs* for products purchased locally must be provided by the vendor; *MSDSs* for products purchased through the Federal Supply System can be obtained through the DOD *Hazardous Materials Information System (HMIS)*. The DOD *HMIS* is a data base of more than 60,000 *MSDSs*. Units not having access to the DOD *HMIS* on local computer hardware, may contact their respective MLC(k) to obtain *HMIS MSDSs*. For those units that desire installing the DOD *HMIS* locally, note:

DOD *HMIS* is in CD ROM format. It is compatible with hardware distributed to operate FEDLOG and the new CG Directives System. EECEN is the point of contact for hardware and software questions. Updated DOD *HMIS* CDs are distributed quarterly. The annual subscription fee will be between \$100 - \$150.

To subscribe to the DOD *HMIS*, coordinated directly with COMDT(G-KSE).

2. **SURF/Procurement Request.** Purchase quantities and costs of hazardous materials are obtained directly from *SURF Sheets* and Procurement Requests (PRs). Copies of *SURF/PRs* shall be retained by the PPC in HMMS files for one year.

**E. Routine Administrative Requirements.**

The unit *PPC* is responsible for recording data, and for overall administration of the HMMS. It is the responsibility of the shop or department personnel (purchaser/user of hazardous materials) to supply the *PPC* with the information necessary to perform these HMMS duties. The unit *PPC* shall:

1. **As required.**

Establish HMMS records and update the Hazardous Materials Inventory for each new product that is added to the inventory. A good faith effort must be made to delete one or more products from the inventory for every one that is added; and Update procurement control logs for each new purchase. from the inventory for every one that is added; and

2. **Quarterly** (or as needed):

Publish and distribute to shops/depts (users of hazardous materials) a revised Hazardous Materials Inventory.

3. **Annually.** On or about 1 January:

Initiate a shop/dept level physical inventory to verify amounts of hazardous materials in storage;

Update the Master Hazardous Materials Inventory to delete inactive items; and,

Establish new procurement control logs for each product, for the new calendar year.



INSTRUCTIONS FOR COMPLETING HAZARDOUS MATERIALS INVENTORY

First: Obtain a copy of the MSDS for the product.

Second: Complete the Procurement Control Log for the product.

Third: Complete the Hazardous Materials Inventory form.

Local MSDS Ref#: This is a locally generated code to identify the MSDS with a shop or dept. Example: Reserve assignment of numbers 001-099 for common use products by multiple shops/depts; 100-199 for products used exclusively by the Deck Dept, 200-299 for Engineering, etc.

Unit Name/Shop/Dept: Self explanatory.

Product Name: List the common name as shown on the product label or the MSDS.

Mfg. Name/Address or Phone: As shown on the label or MSDS. Use as many rows as needed. (Note, if using a computer "spreadsheet" format, the MSDS Ref# should be recorded on each line to "sort" properly).

A/I Active or Inactive: Active items are those currently in stock. Inactive items are not in stock but you may want to keep the item on the inventory if there is a need for the product in the near term. Inactive items for which there is no future legitimate need should be removed from the inventory.

Contains EHSs: Place an "X" in this column if the product contains an Extremely Hazardous Substance.

Contains Toxic Chemicals: Place an "X" in this column if the product contains any Toxic Chemicals. Note: some chemicals are listed by EPCRA as both an EHS and a Toxic Chemical, and some products may contain both EHSs and Toxic Chemicals. Place an "X" in both columns as needed.

NFPA/HMIS Hazard Rating: (Optional) The ratings range from 0 to 4 in each category. This information may be available on the MSDS, it may not. If information is not on the MSDS, or not commonly known, then place an "UNK" standing for "unknown" in each box as applicable.

Waste Disposal Code: (Optional) "R" = Red, "Y" = Yellow, or "G" = Green

**Exhibit 2-2 HAZARDOUS MATERIALS MANAGEMENT SYSTEM  
Procurement Control Log for (Shop or Dept Names)**

Last Revision  
Date: \_\_\_\_\_

Sheet 1 of \_\_\_\_

MSDS Ref#:
Prod Name:
Stored:

NFPA/HMIS Rating:			
Health	Fire	React	Other

P2S2 Reporting Category	
Reportable Product:	
	Contains EHS(s)
	Contains Toxic Chemical(s)
	Regulated (Other)
	Green:Landfill Disposable
	Exempt:Fuel/Office/Janitorial

Unit of Issue:	
Specific Gravity:	
Conversion factor to pounds:	

Max Storage Qty:	
Disposal Code:	
Red Yellow Green	

(A)            (B)            (C)            (D)            (E)            (F)            (G)

2-9

PR Date	PR Number	Unit of Issue	Quantity Purchased	Conversion Factor	Pounds	Cost	Comments
Beginning Inventory OOA ( date )							
1.						\$	
2.						\$	
3.						\$	
4.						\$	
5.						\$	
6.						\$	
<b>Total Purchases:</b>						-----	
Ending Inventory ( date ):(-)							
<b>Total Consumed: (=)</b>							(Amount reported on P2S2)

Instructions for Completing Procurement Control Log:

(Separate Sheet for each product)

Local MSDS Ref#: This is a locally generated code to identify the MSDS with a shop or dept. Example: Reserve assignment of numbers 001-099 for common use products by multiple shops/depts; 100-199 for products used exclusively by the Deck Dept, 200-299 for Engineering, etc.

Prod Name: Product Name.

Stored: Location where the product is stored.

Specific Gravity: As obtained from the MSDS, Part III, Physical Data. This may be needed to calculate the pounds of product if the unit of measure is volumetric, e.g. gallons, etc.

Conversion Factor: As needed to convert gallons to pounds, etc. See Exhibit 2-5.

---

Optional Items:

Waste Disposal Code: Circle or highlight. Waste disposal codes are explained in Exhibit 2-4. the unit PPC.

NFPA/HMIS Hazard: The ratings range from 0 to 4 in each category. This information may be available on the MSDS, it may not. If information is not on the MSDS, or not commonly known, then leave blank or use "UNK" standing for "unknown".



Max Storage Qty: You may want to specify the maximum allowable storage limit for a given product to remain under EPCRA reporting thresholds. Consult with the host command as needed to specify storage quantities.

---

P2S2 Reporting Category:

Reportable or Exempt: Place an "X" in the appropriate box. Products Specifically

Exempt: EXEMPT from reporting on the P2S2 Form include: fuels, office supplies, housekeeping/janitorial supplies, and MWR/NAFA resale products. All other products should be reported under one of the following categories:

Contains EHSs: Place an "X" in this column if the product contains an Extremely Hazardous Substance(s).

Contains Toxic Chemicals: Place an "X" in this column if the product contains a Toxic Chemical(s). **Note:** some chemicals are listed as both an EHS and a Toxic Chemical OR some products contain both. For P2S2 reporting purposes, products in these situations shall be reported on the P2S2 Report in the EHS category, to prevent double counting.

Other Regulated: This is a catchall category, if the product does not contain EHSs or Toxic Chemicals, and you would not dispose of it in the dumpster or landfill (green product), then place an "X" in this box. Generally, disposal of any wastes would be regulated under federal or state environmental laws.

Green: These are products that may have an MSDS under the OSHA standard, but are considered environmentally safe and are acceptable for landfill disposal.

---

Beginning Inventory: Record the total product in stock as a result of a physical inventory conducted On Or About (OOA) 1 Jan. Convert to "pounds" and record this in column (F). Do not estimate its value or fill-in column (G).

- (A) PR Date: Enter the Procurement Request date.
- (B) PR Number: Enter the Procurement Request number. This is the internal Shop/Dept assigned number. There is no need to track the actual Purchase Order Number (PONO).
- (C) Unit of Issue: Pounds, gallons, quarts, etc. Do not use terms like "cases" or "packs".
- (D) Qty Purchased: Total quantity purchased.
- (E) Conversion Factor: As needed to convert gallons to pounds, etc. Conversion factors are provided in Exhibit 1-5.
- (F) Pounds: Multiply the quantity purchased by the conversion factor as needed to record the total pounds purchased, round to the nearest whole number. (You aren't an accountant... you're a Coastie! Don't sweat the small stuff.)
- (G) Total Cost: Record the cost of merchandize; round to the nearest dollar. Ignore shipping, handling and other miscellaneous expenses.
- Ending Inventory: Record the total pounds in stock as a result of a physical inventory 31 December. Note, new logs shall be created each calendar year; (Ending inventory for the previous year = Beginning inventory in the new year.)



Instructions for Completing EHS/Toxic Chemical Worksheet

Unit Name/Shop/Dept: Self explanatory.

Product Name: List the common name as shown on the product label or the MSDS.

Local MSDS Ref#: This is a locally generated code to identify the MSDS with a shop or dept. It should cross reference to the Hazardous Materials Inventory, and the Procurement Control Log.

Constituent Name: List the EHS or toxic chemical constituents of the product as obtained from the MSDS.

CAS Registry Number: List the CAS registry number for each constituent as obtained from the MSDS (If available).

% by Weight: List the percent by weight of each constituent as obtained from the MSDS. If a range of percentages is given for the constituent, then use an average value. Example; Xylene 10-20% by weight; use an average value of 15%.

( )EPCRA 302: Place an "X" in this box if the constituent is an Extremely Hazardous Substance (EHS); and the calculation is being performed to compare amounts of EHS in storage, to the Threshold Planning Quantity (TPQ) for the substance.

( )EPCRA 313: Place an "X" in this box if the constituent is a toxic chemical; and the calculation is being performed to determine if annual use exceeds threshold. Note, some chemicals are being listed by the EPA both as an EHS and as a toxic chemical; in which case both "storage" and "annual use" calculations may need to be performed.

Maximum Storage: (Optional) Enter the maximum storage quantity in pounds for this unit/dept. Enter an "X" as indicated, whether this is an "Estimate" from past records OR if this is a Command specified maximum Allowable storage quantity.

Total Consumed: Enter the total amount of product consumed in pounds for this unit/dept. Enter and "X" as appropriate whether this is an estimate or actual consumption.

Constituent Weights: Multiply the % by weight for each constituent by the "storage", or "consumption" weights respectively to calculate the partial weights of each constituent.

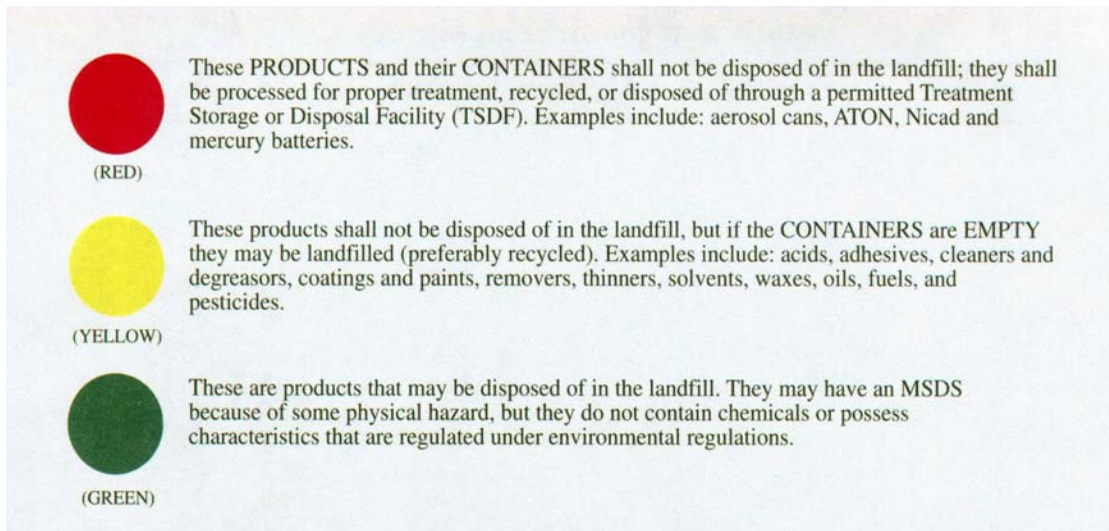
**Exhibit 2-4 HAZARDOUS MATERIALS MANAGEMENT SYSTEM**

**Waste Disposal Codes**

**(Optional)**

1. This is the last link in the hierarchy of Pollution Prevention; pollution that cannot be eliminated at the source, recycled or treated, must be disposed of properly. This system of waste codes provides the end user of the material a clear "signal" of what is or is not acceptable for disposal in the landfill (dumpster). The unit PPC assigns the waste disposal code based on the best information available. In cases where available information is confusing or contradictory, assign a conservative code.
2. Waste disposal codes may be recorded in the Hazardous Materials Inventory and the Procurement Control Log. Consider placing color coded stickers on the MSDS as well; stickers are available from most office supply stores or cataloges.

Exhibit 2-4



**Exhibit 2-5 HAZARDOUS MATERIALS MANAGEMENT SYSTEM**  
**Conversion Factors to Pounds**

- When an item is issued by volume and the actual weight is not known, convert the total quantity of product (e.g. gallons, quarts, etc) to pounds using the following general formula:

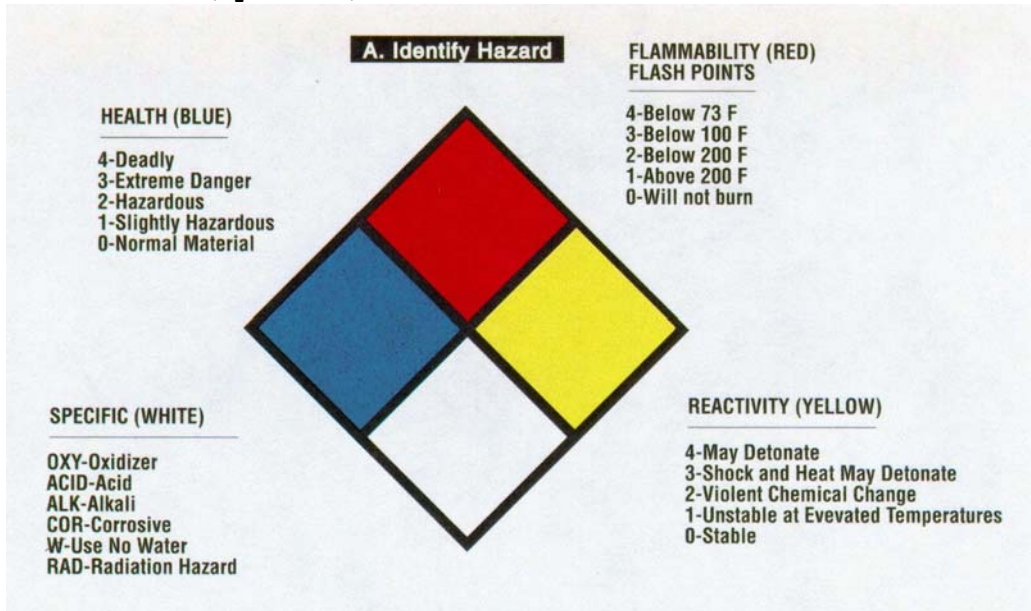
$$\text{Quantity} \quad \times \quad \text{Conversion Factor} \quad = \quad \text{Pounds}$$

- The conversion factor is found in the following table where the row for the specific gravity (SG) of the material intersects the column for the particular unit of issue. Specific gravity of the hazardous material is listed on the MSDS III Part III, Physical Data. Specific gravity (also referred to as density) of a solid or liquid substance is the ratio of the weight of the substance to the weight of an equal volume of water; S.G. of water is 1.0.

**Table 2-1 Conversion Factors**

Table 2-1 Conversion Factors						
S.G.	FT <sup>3</sup>	GALLON	QUART	PINT	FL OZ.	LITER
1.20	74.88	10.01	2.50	1.25	.078	2.65
1.18	73.63	9.84	2.46	1.23	.077	2.60
1.16	72.38	9.68	2.42	1.21	.075	2.56
1.14	71.14	9.51	2.38	1.19	.074	2.51
1.12	69.89	9.34	2.34	1.17	.073	2.47
1.10	68.64	9.18	2.29	1.15	.072	2.43
1.08	67.39	9.01	2.25	1.13	.070	2.38
1.06	66.14	8.84	2.21	1.11	.069	2.34
1.04	64.90	8.67	2.17	1.08	.068	2.29
1.02	63.65	8.51	2.13	1.06	.066	2.24
<b>Water 1.00</b>	<b>62.40</b>	<b>8.34</b>	<b>2.09</b>	<b>1.04</b>	<b>.065</b>	<b>2.20</b>
0.98	61.15	8.17	2.04	1.02	.064	2.16
0.96	59.90	8.01	2.00	1.00	.062	2.12
0.94	58.66	7.84	1.96	0.98	.061	2.07
0.92	57.41	7.67	1.92	0.96	.060	2.03
0.90	56.16	7.51	1.88	0.94	.059	1.98
0.88	54.91	7.34	1.84	0.92	.057	1.94
0.86	53.66	7.17	1.79	0.90	.056	1.90
0.84	52.42	7.01	1.75	0.88	.055	1.85
0.82	51.17	6.84	1.71	0.86	.053	1.81
0.80	49.92	6.67	1.67	0.83	.052	1.76
0.78	48.67	6.51	1.63	0.81	.051	1.72
0.76	47.42	6.34	1.58	0.79	.049	1.68
0.74	46.18	6.17	1.54	0.77	.049	1.63
0.72	44.93	6.01	1.50	0.75	.047	1.59
0.70	43.68	5.84	1.46	0.73	.046	1.54

**Exhibit 2-6 HAZARDOUS MATERIALS MANAGEMENT SYSTEM**  
**NFPA Hazard Identification System**  
**(Optional)**



1. The NFPA Hazard Identification System is designed to assist firefighters in responding to emergency situations. For purposes of the Coast Guard HMMS, by providing this information in the Hazardous Materials Inventory, it provides the personnel using the materials readily available information to apply in emergency situations. The diagram identifies the "health," "flammability" and "reactivity" (instability and water reactivity) of a chemical and indicates the order of severity of each hazard by use of one of five numeral gradings, from four (4), indicating the severe hazard or extreme danger, to zero (0), indicating no special hazard. In the diamond-shaped diagram "health" hazard is identified at the left, "flammability" at the top and "reactivity" at the right.
2. The bottom space is primarily used to identify unusual reactivity with water. A "-W-" alerts emergency response personnel to the possible hazard in use of water. Oxidizing chemicals are identified in the bottom space by "OXY". The bottom space may be also used to identify a radiation hazard.
3. For a detailed description of the hazard identification system used here, see "Recommended System for the Identification of the Fire Hazards of Materials, NFPA No. 704M."

## Chapter 3. Procurement Control

### A. General.

1. **Purchases.** Unnecessary purchases of hazardous materials is a problem that we must control; it is a problem we can control. We pay for the hazardous materials when we order them, and we pay again double or triple the original cost to dispose of those materials as hazardous wastes. It is estimated that as much as 50% of the hazardous wastes the Coast Guard currently generates is the result of overstock items. In addition to the purchase/disposal expense, we increase our environmental risks, we take on added regulatory burdens, and we become liable for those waste materials. Procurement control is a critical aspect of P2. The problem must be addressed at the **source**; preventing unnecessary materials from entering our system, and choosing the safest products available.
2. **Procurement Control Process.** All Coast Guard units shall

implement hazardous material procurement controls. Those controls shall meet the minimum requirements specified herein. The procurement control process is illustrated in Figure 3-1; it is modeled as follows:

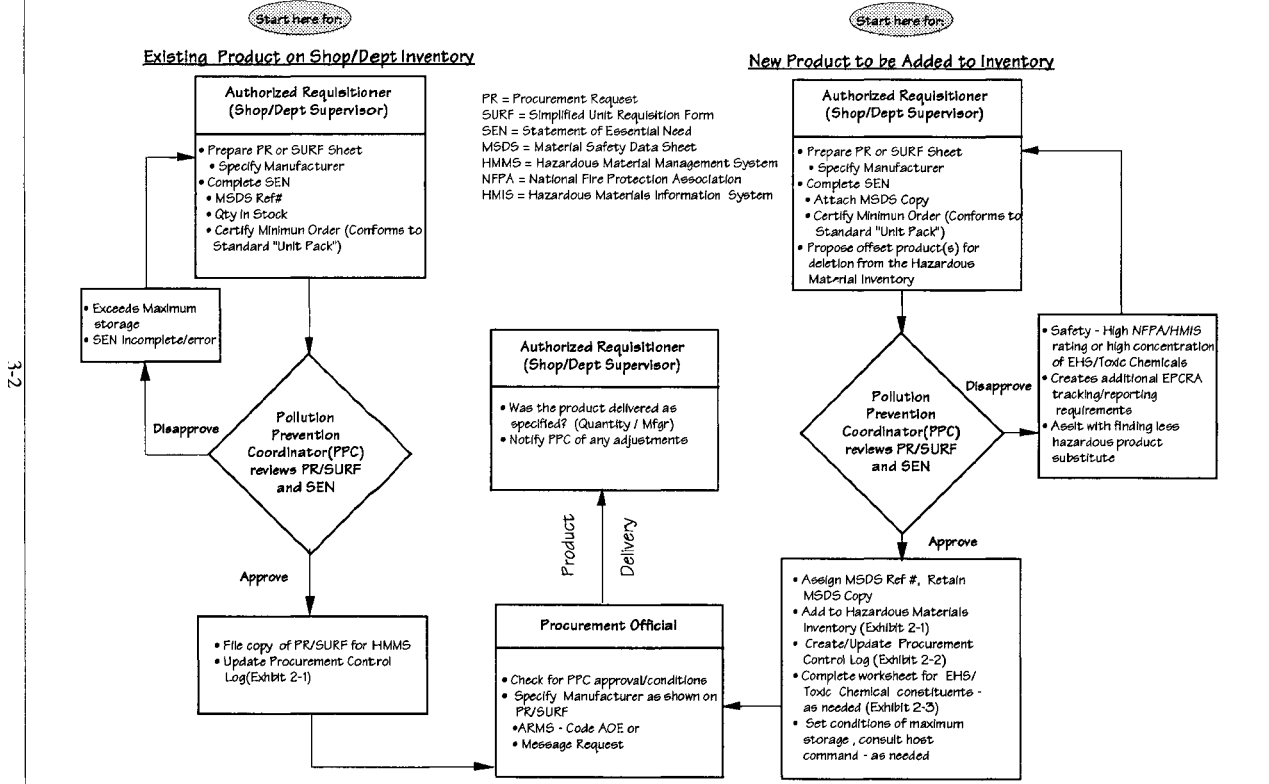
**The OIC/Commanding Officer.** Pollution Prevention and procurement control, starts with leadership. Procurement control saves resources (money, and personnel). It is a means to funnel resources back in to the unit. Subordinates must be held accountable for their role in hazardous material control. One positive way to elevate P2 priority and expectations, is to include measures of success in the routine performance evaluations of key personnel (Page 7s and OERs for military, and CJE's for civilians). Another is through individual awards and recognition.

**The Shop/Dept Supervisor.** The procurement process begins when the shop or department supervisor initiates a Procurement Request or *SURF* sheet for a hazardous material. The most basic requirement is to order minimum quantities. In addition, the supervisor has the obligation, to ensure that the hazardous material is listed in the unit Hazardous Materials Inventory, and that an MSDS is in the unit inventory file. When new products are proposed for addition to the unit Hazardous Materials Inventory, the supervisor must acquire the MSDS so it can be evaluated BEFORE it is purchased. The "on hand" quantity of hazardous materials should never exceed a 60 day supply (Ref: COMDTINST M17440.13 Comptroller Manual Vol III)

**The Unit PPC.** The unit *PPC* has the authority to control what hazardous materials, and how much of them, enter the system. This is accomplished by reviewing all Procurement Requests and *SURF* sheets for hazardous materials, and by controlling the hazardous materials that are added to or deleted from the unit Hazardous Materials Inventory. The unit *PPC* has the obligation to maintain an up-to-date Hazardous Materials Inventory for shop/dept level use, and to expeditiously review procurement requests and new-product reviews.



# Figure 3-1 Hazardous Material Procurement Control Process



**The Shop/Dept Supervisor.** The procurement process begins when the shop or department supervisor initiates a Procurement Request or *SURF* sheet for a hazardous material. The most basic requirement is to order minimum quantities. In addition, the supervisor has the obligation, to ensure that the hazardous material is listed in the unit Hazardous Materials Inventory, and that an MSDS is in the unit inventory file. When new products are proposed for addition to the unit Hazardous Materials Inventory, the supervisor must acquire the MSDS so it can be evaluated BEFORE it is purchased. The "on hand" quantity of hazardous materials should never exceed a 60 day supply (Ref: COMDTINST M17440.13 Comptroller Manual Vol III)

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**The Statement of Essential Need.** Unit *PPCs* cannot perform their management and control function without basic information. A P2 adaptation to the "Statement of Essential Need" (SEN) satisfies this requirement. The SEN is provided in Exhibit 3-1. A SEN shall be prepared by the shop/dept supervisor, and accompany all Procurement Requests and *SURF sheets*, for routing through the *PPC*. The SEN allows the *PPC* to administer the HMMS, and provides a basis for approving hazardous material purchases.

## **B. Clarifications.**

1. **Federal Supply System.** There are several aspects of the federal supply system that present barriers to effective management of hazardous materials. Efforts are in progress to fix the system to make it more P2 friendly. But milestones have not been clearly established, nor is it a system that the Coast Guard controls. We can exercise some measure of control by fine tuning the procedures as follows:

**Quantity of Issue.** One problem area is the "quantity of issue". The standard quantity of issue for many supply system products may be a several year supply for the typical small CG unit, or simply more than the unit needs for a specific project. For example, a project at the unit is planned that will require 6 gallons of paint, and the quantity of issue is multiples of 4 gallons. The *SURF sheet* may be processed for 6 gallons, but in the vast majority of cases, the unit will receive from the Supply Systems Command a status code of "BJ" (Quantity changed to conform to unit pack; adjust due-in records accordingly. Unit of issue is not changed.) This means the request is being processed, but the CG unit will receive and be billed for 8 gallons of paint. The CG unit now has at least two gallons of overstock paint it has paid for; and then it must handle, process, and pay for waste disposal. **Where circumstances at the unit require materials that do not conform to standard unit packing, the unit should consider the disposal cost of unused product, and pursue commercial procurement if it is more cost effective.**

**Multiple Products for Each NSN.** Another problem area occurs because a purchase is typically specified only by National Stock Number (NSN): NSNs typically have numerous manufactures that can meet requirements. It is common for CG units to have numerous products all serving the same basic purpose, for different manufacturers in stock. This bloats the unit Hazardous Materials Inventory, creates substantial non-productive workload for additional training, tracking, and recording; MSDS files are incomplete; and a lack of control over the performance, relative safety, and environmental hazard associated with the products ultimately delivered. It is technically feasible to specify the product by manufacturer using procedures that already exist in supply system. There is a tradeoff, specifying the exact product solves the P2 problem, but it requires "exception" processing of the SURF *sheet* that may add a week to the delivery time. **All SURF Sheets processed for hazardous materials shall specify the manufacturer in addition to the NSN. If the federal supply system cannot deliver within the unit's time constraints, then commercial procurement shall be pursued.**

2. **PPC Evaluation of Products.** The goal is for the PPC to evaluate the relative environmental merits of various products; and given satisfactory performance among product candidates, approve the safest, least toxic alternative. As a practical matter, this evaluation is difficult; it requires dedicated staff time, accessible information about product characteristics, and experience. Over time, our goal is to achieve this level of review. Until we reach that point, the PPC should conduct evaluations to satisfy the following considerations:

**EHS and Toxic Chemical Constituents.** In the case of pesticides with *EHSs*, their use is only authorized by exception/waiver (See Chapter 5, Section A). For other products in the existing unit Hazardous Materials Inventory, the purchase quantity should not exceed that product's storage ceiling if one has been established. For new products proposed for addition to the unit inventory, those with *EHSs* shall only be approved if substitutes are not available, consult with your host command for EPCRA reporting impacts, and then with your servicing CEU or MLC(kse) as necessary for technical advice. Products without toxic chemicals, or those with lower relative concentrations, are desired. Substitutions should be pursued as time and experience permit. (At CG facilities with EPCRA 313 TRI reporting requirements, additional controls/review may be necessary for specific products, see Chapter 5, Section F, for additional detail).

**NFPA or HMIS Hazard Ratings.** Hazard ratings of "4" in any category shall only be approved if substitutes are not available. Consult with your servicing CEU or MLC(kse) as necessary for technical advice. Products with lower ratings and equal performance are desired. Substitutions should be pursued as time and experience permit.

**Performance.** Does the "greener," "safer" product substitute really work for the intended purpose? Does it require considerably more material to accomplish the same task? Would the product need approval first by higher authority (e.g. SHIPALT)?

3. **Authorized Use Lists (AULs).** One strategy being pursued by the headquarters P2 Committee is the development of "Authorized Use Lists". These are pre-screened and approved lists of materials that can be used to conduct the routine operations and maintenance at the unit. AULs have been developed and implemented by (G-EAE) for various types of airframe maintenance. Similiar efforts are underway by (G-ENE) for cutter maintenance. Development of AULs is an on-going initiative. Also, by exercising the procurement controls specified in this Chapter, you are in effect creating an AUL for your unit.

**C. Requirements.**

1. **Authorized Requisitioners.** The authorized requisitioners (Shop/Dept personnel) that prepare the Procurement Request (PR) and *SURF sheets* for hazardous materials shall:

**Prepare the SEN.** Units may adapt wording to capture local requirements. The SEN shall be stamped, printed, or attached to the PR or *SURF sheet*, and routed to the unit *PPC* for approval.

**Specify the Manufacturer.** If ordering hazardous materials through the Federal Supply System, the requisitioner must specify the manufacturer on the *SURF Sheet*.

**Acquire the MSDS.** This is required for all products proposed for addition to the unit Hazardous Materials Inventory, and submitted to the *PPC* for review.

2. **Unit PPC.** The requirement for *PPC* approval of hazardous materials is specified in the CG Small Purchase Manual, reference (d). The unit *PPC* shall perform the following reviews:

**Procurement Review.** Review all PR and *SURF sheets* for hazardous materials and approve or disapprove in accordance with established EPCRA/P2 criteria. The *PPC* shall retain a copy of the PR or *SURF sheet* and record required information in the HMMS. Approved PRs and *SURF sheets* will be forwarded to the procurement official; disapproved PRs and *SURF sheets* will be sent back to the requisitioner.

**New Product Review.** Review products for *EHS, toxic chemical,* and *NFPA/HMIS* hazard rating. Consult with the requisitioner, host command, CEU, or MLC(kse) as necessary to identify suitable substitutes. For approved products, update the unit Hazardous Materials Inventory, and establish the HMMS Procurement Control Log.

3. **Procurement Officials.** Procurement Officials shall:

**Only Process PPC Approved Requests.** Only process PRs and *SURF Sheets* for hazardous materials that have been approved by the unit *PPC*, as noted on the SEN. Procurements for hazardous materials without an accompanying SEN shall be returned without procurement action to the requisitioner.

**Specify the Manufacturer.** Only process Procurement Requests and *SURF sheets* if the manufacturer is specified. When processing SURF requests through ARMS, specify the manufacturer by using **Code A0E**, meaning "exception". The corresponding data field allows you to enter data to specify the exact product. Alternatively, the SURF request shall be processed by "Narrative MILSTRIP Message" to specify the exact product. Additional details are contained in Enclosures (VI-20) and (VI-23) to COMDTINST M4400.13.

Exhibit 3-1 Statement of Essential Need

I certify that this hazardous materials procurement is essential to the mission of this unit, and that the minimum quantities are being ordered; in addition,

\_\_\_ The MSDS for this product is currently on file, and listed in the Hazardous Materials Inventory (MSDS Ref# \_\_\_\_\_), and personnel are properly trained in its use. There is currently \_\_\_\_\_ in inventory.  
(qty)

**OR**

\_\_\_ This is a new product not currently on file in the Hazardous Materials Inventory; the MSDS for the product is attached. Personnel will be trained in proper use.

\_\_\_\_\_/\_\_\_\_\_  
Authorized Requisitioner/ date

\_\_\_ Approved \_\_\_ Disapproved

\_\_\_\_\_/\_\_\_\_\_  
Pollution Prevention Coord/ date

## Chapter 4. CG Pollution Prevention Scoring System (P2S2)

### A. General.

1. **P2 Success.** Success of our P2 efforts depends on how effectively we manage and reduce the amounts of the hazardous material we use. Over time, an effective P2 program will yield more efficient use of resources (personnel and funding), as we eliminate some of the administrative burdens, and reduce our operating costs for material procurement, waste disposal, and remediation. P2S2 will measure the success of our efforts.
2. **P2 Measures of Success.** P2S2 measures the number of products in the inventory and the pounds of product consumed. In order to account for the relative environmental risk, products in various categories are adjusted by a "P2 Factor" (pounds in each category are multiplied by the "P2 Factor" to yield a "P2 Product Score"); and product scores are added to yield the unit "P2 Composite Score". The composite scores can be compared over time; and with insightful leadership we can precipitate a downward trend in score. **Commanding Officers shall establish unit goals to reduce the P2 Composite Score.** We can reward low scoring units, and assist high scoring units to reduce their scores. The net effect will be to reduce our consumption of hazardous materials.
3. **HMMS/P2S2.** The data required to support the P2S2 is obtained from the unit HMMS Procurement Control Log for each product. The process for completing the P2S2 Report is illustrated in Figure 4-1.

### B. Clarifications.

1. **Assumptions.** P2S2 measures products at the source where hazardous materials enter our system. P2S2 assumes that procurement of hazardous materials equates to consumption of hazardous materials. This is not always true, but measurement of actual consumption is overly complex and counter productive.

**Recycling.** Consider the case where a shop/dept declares 5 gallons (45 pounds) of paint excess, and gives it to another shop/dept that can use the material. As long as the transfer is within the unit, it is transparent to the P2 score because the data was originally recorded to the purchasing shop/dept; the PPC need not be in the business of continually reconciling the data to reflect actual consumption and transfers between shops/depts.

**Waste.** There is no accounting in this system if a product was overstocked, and then declared a waste designated for disposal. The product was not actually consumed in a process, but again as above, the PPC need not reconcile the data to show actual consumption. In fact, the score associated with excess product purchase is reflected (as a "penalty") in the total P2S2 score.

2. **Accuracy.** Data accuracy of 95% or better is our goal.

**C. Reporting Requirements.**

1. **Annual P2S2 Report.** The unit PPC shall annually OOA 1 January, initiate a physical inventory of hazardous products in storage, and update HMMS records accordingly. Prepare Exhibit 4-1; P2S2 Report (RCN 16455-1). The report shall be submitted to COMDT(G-ECV-1) by 15 February for the previous calendar year. Provide an information copy to your CEU and MLC.
2. **The first P2S2 Report.** The first *P2S2 Report* is due 15 February 1995. The first report shall reflect only *HMMS* data for the time period from 1 October 1994 through 31 December 1994. Annually thereafter, *P2S2 Reports* shall be due on 15 February and reflect *HMMS* data for a full calendar year.
3. **Historical Record.** *P2S2 Reports* shall be retained by the unit *PPC* for three years.
4. **Annual Statistical Summary.** COMDT(G-ECV-1) will summarize unit *P2S2 reports* and publish an annual statistical summary.

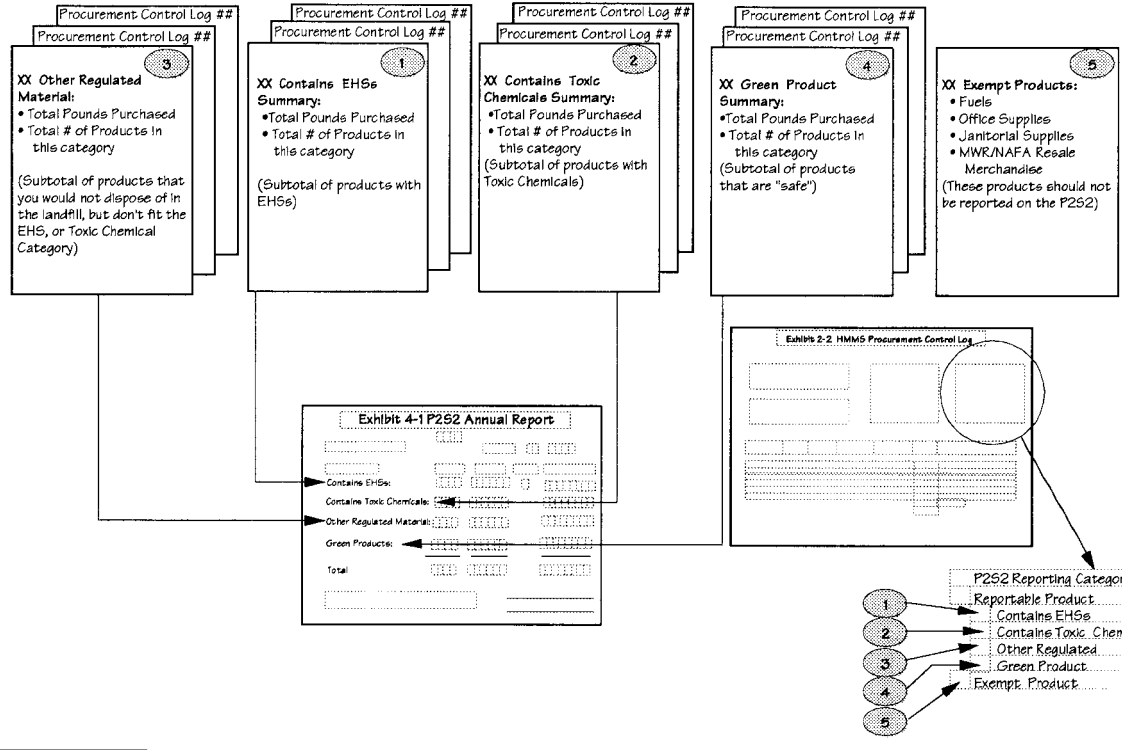


Figure 4-1

# P252 Annual Reporting Process

Data comes from the HMMS Procurement Control Logs

4-3





INSTRUCTIONS FOR COMPLETING P2S2

- CY-Calendar Year: Reports are due to COMDT(G-ECV-1) by 15 February for the preceding calendar year ending 31 December.
- Unit Name/OPFAC: Self explanatory.
- Non-Fuel Products: These are all products listed in the unit HMMS, except for: fuels, office supplies, housekeeping/janitorial supplies, and all products sold through MWR or NAFA activities.
- Number: The number of products in the unit HMMS, in each respective category that were "on board" listed in the Inventory during the previous calendar year. Each product shall be counted only once; e.g. a product containing a mixture of EHSs and Toxic Chemicals shall be counted in the EHS category; e.g. a product in storage, but not used shall be counted in the total.
- Pounds: The pounds of products consumed in each respective category during the previous calendar year: this information comes directly from the Procurement Control Log for each hazardous material listed in the unit Inventory (excluding fuels and exempt office/janitorial supplies).
- P2 Score: Pollution Prevention Score; Multiply the pounds by the P2 Factor in each respective category.
- Total: Add the column entries as indicated.
- Containing EHSs: These are products listed in the unit HMMS that contain **any** Extremely Hazardous Substances as defined in 40 CFR 355. A product that is a mixture of EHSs and other substances shall be counted in this category.
- Containing Toxic Chemicals: These are products listed in the unit HMMS that contain Toxic Chemicals as defined by 40 CFR 372. Products that are a mixture of Toxic Chemicals and other substances (other than EHS) shall be counted in this category.
- Other RCRA Regulated: These are products listed in the unit HMMS that has a Waste Disposal Code of Red or Yellow (other than already listed as containing EHs or Toxic Chemicals); e.g. products that must be disposed of as hazardous waste.
- Green: These are green products listed in the unit HMMS that are environmentally safe, and can be acceptably disposed of in the local landfill.

**Chapter 5. Compliance with the Emergency Planning  
and Communtiy Right-To-Know Act (EPCRA)**

**A. EPCRA Section 302 Notifications Required for the  
Storage of Extremely Hazardous Substances (EHSs)**

**1. General.**

If a CG facility has stored on-site at any given time, more than the *Threshold Planning Quantity (TPQ)* of an *Extremely Hazardous Substance (EHS)*, then the facility must report under EPCRA 302. EPCRA 302 regulations, and the list of *EHSs/TPQs*, are published in 40 CFR 355. All federal 302 regulatory requirements have been incorporated into the requirements set forth in this section. Chemical lists are included in the Appendices (1) and (2). A complete state listing of State EPCRA points of contact is provided in Appendix (3); to assist units in determining state-specific information/requirements.

**2. Notifications.**

a. **One-Time Notification.** CG facilities that meet threshold shall make a one-time notification, in writing, to their:

*State Emergency Response Commission (SERC)*

*Local Emergency Planning Committee (LEPC)*

b. **Update Notifictions.** CG facilities that begin handling products containing *EHSs* not previously reported to the *SERC* and *LEPC*, shall submit subsequent notifications to these agencies within 60 days of first storing the product at the facility. If the EPA makes additions to the *EHS* list, products with these additionally listed chemicals shall be reported within 60 days. COMDT(G-ECV-1) will issue an alert and a revised listing of chemicals when the EPA adds chemicals to the *EHS* list.

c. **Notification Content.** Initial and/or subsequent notifications shall contain:

Facility name, address, and phone number;

A listing of those *EHSs* stored in quantities above *TPQ*;

Contact person available to answer questions about the facility.

(Provide an information copy of these notifications to your servicing CEU, or COMDT(G-ECV-1) for headquarters units.)

### 3. Exemptions.

The EPA has promulgated certain exemptions to the reporting provisions of EPCRA. CAUTION, the exemptions differ for each Section of EPCRA, and therefore apply only to that Section. The reporting exemptions that apply to EPCRA 302 are explained below:

a. **Calculating TPQ.** To determine whether a CG facility stores a quantity of an EHS that exceeds the TPQ, the facility must determine the total amount of the substance stored at any one time. Storage of the substance at several different locations or several commands at the facility, the method of storage of the substance, or the number of containers the substance is stored in, does not matter. **The factor that determines whether the TPQ is met is the total amount of the substance stored at the facility.** A worksheet for making threshold calculations has been developed as part of the HMMS (See Exhibit 2-3).

b. **TPQ for Mixtures.** The EPA has adopted the 1 percent de minimus limit for mixtures that contain EHSs. This means that products containing less than 1 percent of an EHS by weight do not need to be included in the aggregate amount for the facility. This exemption is for making TPQ calculations only. There is no de minimus exemption, for example, if the product were spilled, and a report is required because the spill quantity exceeded the Reportable Quantity (RQ) for that chemical; (See Chapter 5, Section C for a more detailed discussion.)

c. **TPQ for Solids.** EHSs that are solids are subject to either of two TPQs, 10,000 pounds or some lesser number (1, 10, 100, or 500 pounds as specified in the 302 list). The lower quantity applies only if the solid exists in powdered form, and has a particle size of less than 100 microns; or is handled in solution or in molten form; or meets the criteria for a National Fire Protection Rating (NFPA) of 2, 3, or 4 for reactivity. If the solid does not meet any of the above criteria, it is subject to the 10,000 pound threshold.

### 4. Clarifications.

Common Coast Guard situations have been reviewed to provide consistent CG-wide EPCRA reporting.

a. **General Note.** Facilities that store products with EHSs above TPQ will also have reporting requirements under EPCRA 311 and 312. Facilities may store products with EHSs below the TPQ, but will still have reporting requirements under EPCRA 311 and 312 if they store more than 500 pounds of the EHS at the facility. (See Chapter 5, Sections D and E for further discussion.)

b. **Fuels, Lubricants, Waxes, Oils, and Fats.** Products in these categories that are used in routine Coast Guard applications have been found not to contain EHSs. There is no EPCRA 302 reporting requirement and no need to perform threshold calculations for these products.

c. **Ordnance and Munitions.** Ordnance and munitions that are used in routine Coast Guard applications have been found not to contain EHSs. There is no EPCRA 302 reporting requirement and no need to perform threshold calculations for these products.

d. **Batteries.** Lead-acid batteries contain sulfuric acid (CAS 7664-93-9) which is a listed *EHS*; the *TPQ* is 1000 pounds. All other battery types used in common Coast Guard applications have been found not to contain *EHSs*, (except perhaps in trace amounts below de minimus concentrations). Lead-acid batteries are commonly used for ATON and other equipment. Coast Guard facilities may potentially meet the 1000 pound *TPQ*, and threshold calculations must be performed. (Use Exhibit 2-3 to make this calculation; the concentration of sulfuric acid by weight ranges from 14% to 37% depending on the battery type; MSDSs have the specific data). Consider only lead-acid batteries that are "stored" at the facility; do not count what is in the equipment or in an ATON structure, offsite or onsite.

e. **Paints.** The constituents of paints are too diverse to draw general conclusions. Products in this category should be evaluated by CG facilities for *EHS* constituents. Several types of coating systems commonly used and known to contain *EHSs* are aviation polyurethanes, and vessel bottom isocyanate paints.

f. **Pesticides.** Many pesticides (herbicides and insecticides) contain *EHSs*. Products that contain *EHSs* are banned from storage at Coast Guard units. Coast Guard units currently using and storing pesticides with *EHSs* shall find suitable substitutes, or contract for services through licensed commercial applicators.

g. **All Other Products.** Other product categories for example, cleaners and degreasers, fluxes, preservatives and disinfectants, thillners, adhesives, coating removers and other chemicals are too diverse to draw general conclusions. Products in these categories need to be evaluated by CG facilities for *EHS* constituents to determine if their storage is above *TPQ*, and reporting is required.

#### 5. **Tenant Command Requirements.**

a. **Establish Storage Amounts (Optional).** For each product that contains an *EHS*, establish the **minimum** amount that **needs** to be stored to meet operational requirements. Establish strict inventory and procurement controls to ensure that this storage amount is not exceeded. This is an optional requirement for CG facilities to manage storage quantities that are below *EPCRA* reporting thresholds.

b. **Institutionalize.** Institutionalize routine unit HMMS procedures to review new products for *EHS* constituents before adding them to unit Hazardous Material Inventory. Coordinate with the host command to inform them of any additions or deletions to the Inventory, and/or any changes in storage quantities.

c. **TQM.** Employ TQM techniques to reduce and/or eliminate the use of products containing *EHSs*.

#### 6. **Host Command Requirements.**

a. **Coordinate Initial Notifications.** Coordinate notifications to local agencies if *EHS* storage exceeds *TPQ*. Provide info copy to your servicing CEU, or if a headquarters unit, directly to COMDT(G-ECV-1).

b. **Institutionalize.** Institutionalize procedures, to annually validate the notifications on file with local and state government agencies.

## B. EPCRA Section 303, Emergency Planning Requirements

### 1. General.

One of the primary reasons for EPCRA is to engage local communities in planning for chemical disasters. CG facilities have a mandatory requirement to participate in the local emergency preparedness planning process **only** if they are required to make EPCRA 302 notifications. EPA regulations regarding EPCRA 303 are published in 40 CFR 355. All federal 303 regulatory requirements have been incorporated into the requirements set forth in this section.

### 2. Planning Requirements.

*Facilities* that meet criteria must appoint a facility Emergency Response Coordinator, and provide the name, phone number, and address to the *LEPC*. The facility Emergency Response Coordinator shall act as liason with the *LEPC*, and participate in the planning activities of the *LEPC*. The EPCRA statutes give broad information gathering powers to the *LEPC*, enabling them to anticipate various disaster scenarios and plan responses. The regulations do not specify exact reporting requirements for facilities. Given our mission, and our standing policy to promote good community relations, **CG facilities that meet criteria shall devote reasonable efforts to participate in the emergency planning activities of the LEPC.**

### 3. Tenant Command Requirements.

**Participation in Emergency Planning (As Required Only).** Participation by tenant commands in emergency planning efforts are required to the extent deemed appropriate by the host command (Emergency Response Coordinator).

### 4. Host Command Requirements.

**Participation in Emergency Planning (As Required Only).** The host command as required shall:

- Coordinate any required notifications to the *LEPC*,
- Appoint a Emergency Respons Coordinator, and
- Participate in emergency planning activities of the *LEPC*.

## C. EPCRA Section 304, Emergency Release Notifications

### 1. General.

Under 304 of EPCRA, Coast Guard units must report accidental releases for certain hazardous substances if the release is above a specified *Reportable Quantity (RQ)*. These substances include *EHSs* and *CERCLA hazardous substances*. CERCLA hazardous substances appear in Table 302.4 of 40 CFR 302. The EPA regulations regarding EPCRA 304 reporting are contained in 40 CFR 355. All federal 304 regulatory requirements have been incorporated into the requirements set forth in this section. Chemical lists are included in the Appendices (1) and (2). A complete state listing of EPCRA points of contact is provided in Appendix (3); to assist units in determining state-specific information/requirements.

### 2. Reporting.

a. **Agencies to Notify.** In the event of an *RQ* release, it must be immediately reported by telephone to the:

*State Emergency Response Commission (SERC),  
Local Emergency Planning Committee (LEPC), and  
National Response Center (NRC).*

b. **Immediate Notification.** The initial telephone report to each organization shall include:

The chemical name or identity of any substance involved in the release;

The location of the chemical;

Whether the substance is an *EHS*;

An estimate of the quantity of the substance that was released into the environment;

The time and duration of the release;

Whether the chemical was released into the air, water, soil, or a combination of the three;

Any known or expected acute or chronic health risks associated with the emergency; and, where appropriate, advice concerning medical attention for exposed individuals;

The proper precautions to be taken as a result of the release, including evacuation; and



The names and telephone numbers of the person or persons to be contacted for further information.

c. **Follow-up Notification.** Written follow-up to the *LEPC* and *SERC* is required as soon as practicable after a release. The post accident/spill report shall provide greater detail about initial notification. The written report shall include:

- Actions taken to respond to and contain the release;
- Any known or expected acute or chronic health risks associated with the release; and
- Advice regarding medical attention for exposed individuals, when appropriate.

### 3. **Exemptions.**

The EPA has promulgated certain exemptions to the reporting provisions of EPCRA. CAUTION, the exemptions differ for each Section of EPCRA, and therefore apply only to that Section. The reporting exemptions that apply to EPCRA 304 are explained below:

- a. Federally permitted releases as determined under CERCLA. The CG currently has no such permits.
- b. Releases which result in exposure only to persons within the boundaries of the facility.
- c. Routine releases of pesticides being applied in accordance the regulatory requirements of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). This does not include the accidental spill of pesticides.
- d. Continuous releases as defined under CERCLA.

### 4. **Clarifications.**

**Fuels and fuel oil product spills.** Fuel and oil product spills are not reportable under EPCRA 304, and therefore the *SERC* and *LEPC* do not need to be notified. Spills are still reportable under various state Clean Water Act provisions, and notifications to the *NRC* and other state agencies are still required. Units shall coordinate with their host command to ascertain local requirements.

5. **Tenant Command Requirements.**

a. **Update Existing Emergency Response Plans.** Update existing emergency response plans to include notification to the *SERC* and *LEPC* (and *NRC* if not already included). There is no need to create a new plan, unless one does not already exist. Units that use hazardous materials already have a variety of requirements to have emergency response plans as specified in reference (c), Hazardous Waste Management Manual (e.g. Spill Prevention Control and Countermeasure Plan, RCRA Contingency Plan, Facility Response Plan, etc). Verify that the existing plan(s) contain the required reporting elements specified in the EPCRA regulations.

b. **Spill Notifications.** In the event of a spill, make notifications as required. Provide information copies of any reports and/or correspondence to the host command; including all "after action items" such as correcting the cause of the spill or any amendment to existing emergency plan procedures. Note, the requirement for the spill notifications at some CG *facilities*, has been negotiated in written local host/tenant agreements to be the responsibility of the host command.

6. **Host Command Requirements.**

**Custody of Spill Case Files.** Host commands shall retain copies of **all** spill case files reported by the *facility*.

## D. EPCRA Section 311, Chemical Storage Reporting

### 1. General.

If a CG facility has stored on-site at any given time, more than 10,000 pounds of a hazardous chemical, or in the case of an EHS, more than the TPQ or 500 pounds (whichever is less), then the facility must report under EPCRA 311. There are no "chemical lists" associated with EPCRA 311 (except as applicable to EHSs). Any hazardous chemical or product stored in excess of 10,000 pounds is a potential candidate for EPCRA 311 reporting. A hazardous chemical or product is anything that its manufacturer or distributor is required to prepare a *Material Safety Data Sheet (MSDS)* for under the OSHA standard. It is estimated that more than 500,000 chemicals and products have MSDSs. EPA regulations regarding EPCRA 311 are found in 40 CFR 370. All federal 311 regulatory requirements have been incorporated into the requirements set forth in this section. A complete listing of state EPCRA points of contact is provided in Appendix (3); it also lists the state's reporting requirements.

### 2. Reporting.

a. **Agencies to Notify.** Reports shall be submitted to the following local agencies:

Local Fire Department,  
State Emergency Response Commission (SERC), and  
Local Emergency Planning Committee (LEPC).

b. **MSDS or Inventory Listing.** The regulations allow facilities the option of submitting copies of MSDSs **OR** a product listing for which an MSDS is available. **CG facilities shall report in accordance with state preference.** This is to be a onetime report, updated only if the storage quantity changes, or there is a significant change stemming from new or revised MSDS information. Updates are due to these agencies within 90 days after the storage quantities or the MSDS information changes.

c. **Mixtures (Products).** The regulations allow facilities two options for the reporting of "mixtures" of chemicals (the vast majority of products that the CG uses are mixtures of chemicals).

Option 1: Submit a listing of the individual chemical components in the mixtures. This option requires substantially more recordkeeping, and is counter productive. **DO NOT report under this option.**

Option 2: Submit a listing of the mixtures (products) themselves. **All CG facilities shall report to local agencies under this option, either by providing a copy of the MSDS, or listing the product.**

d. **Sample "Inventory Listing" Format.** A sample reporting format, for those facilities that report the "Inventory Listing" (as opposed to copies of MSDSs), is provided in Exhibit 5-1. Information to be provided to the local agencies is available from the MSDS, and includes:

The chemical name or common name of the product,  
Hazard category.

### 3. Exemptions.

The EPA has promulgated certain exemptions to the reporting provisions of EPCRA. CAUTION, the exemptions differ for each Section of EPCRA, and therefore apply only to that Section. The reporting exemptions that apply to EPCRA 311 are explained below:

- a. Foods, food additives, drugs, or cosmetics regulated by the Food and Drug Administration
- b. Chemicals present in solid manufactured items to the extent that exposure does not occur under normal circumstances, for example, paint on furnishings. Such articles must meet a three part test: they are formed to a specific shape or design during manufacture; they have end use functions dependent in whole or in part upon the shape or design in end use; and they do not release, or otherwise result in exposure to hazardous chemicals under normal conditions of use.
- c. Consumer products to the extent they are used for personal, family, or household purposes, **OR** products used in the same form and concentrations available to a consumer. The term "form" refers to the packaging rather than the physical characteristics of the product.
- d. Chemicals used in research laboratories, hospitals, or other medical facilities under the direct supervision of a qualified individual.
- e. Chemicals used for routine agricultural operations (includes grounds maintenance activities).
- f. Tobacco or tobacco products.
- g. Wood or wood products.
- h. Hazardous wastes as defined by the Solid Waste Disposal Act.

#### 4. Clarifications.

The following are common situations that shall be reported consistently CG-wide:

a. **Fuel.** The reporting criteria is based on storage capacity; this differs from other hazardous materials where threshold is based on actual or estimated HMMS/inventory data. It is assumed that the fuel tanks are full. If the aggregate total of storage capacity in each respective fuel category exceeds 10,000 pounds, the the facility has a reporting requirement. Fuel in the tanks of the following shall be excluded from threshold calculations to eliminate accounting for small or transient quantities: visiting vessels and visiting aircraft, boats 55' and below; equipment, and vehicles. Fuel storage capacity in the tanks of homeported cutters and homeported aircraft would be counted towards the total storage for the *facility*, and fuels stored in shore-side Aboveground Storage Tanks and Underground Storage Tanks (ASTs/USTs) will be counted.

The following table equates gallons of fuel to pounds of fuel. *Facilities* that exceed the storage capacity thresholds have a reporting requirement under 311:

<u>Fuel Type</u>	<u>Unit Weight Pounds/Gallon</u>	<u>Facility Threshold #Gallons = 10,000 Pounds</u>
Gasoline (all)	7.30	1370
Diesel(all)	7.31	1370
Htg Fuel No. 2	7.31	1370
JP-4	6.37	1570
JP-5	6.65	1504
JP-8	6.65	1504
Jet-A	6.65	1504

b. **Engine fluids.** Engine fluids in the engine would not be counted towards the total, but storage, for example, of drums of lube oil would. Likewise, the same principle would apply to refrigerants, boiler chemicals, etc. Count what is stored in the drum or container, not what is in the equipment.

c. **Ordnance.** Ordnance and all type of munitions shall not be reported to local agencies. Ordnance and munitions do not have MSDSs, and there is no requirement to report. Reporting storage quantities and locations publicly would seriously compromise safety and security.

d. **Batteries.** Installed batteries in the equipment or in an ATON structure, offsite or onsite, would not be counted towards threshold; batteries in storage would be counted. Each class of battery would be aggregated separately to determine if threshold is met for that class of battery. Lead-acid batteries contain sulfuric acid (CAS 7664-93-9) which is a listed *EHS*; the *TPQ* is 1000 pounds, but the TIER II reporting threshold of 500 pounds would apply. (Use Exhibit 2-3 to make this calculation; the concentration of sulfuric acid by weight ranges from 14% to 37% depending on the battery type; consult MSDSs for specific data.)

5. **Tenant Command Requirements.**

a. **Coordinate with Host Command.** Reporting under 311 is a one-time occurrence. Coordinate closely with the host command to determine what products are stored in large volume at the facility that may require reporting. (See Chapter (1) Implementation Strategy).

b. **TQM.** Employ TQM techniques to reduce storage of large volume hazardous materials.

c. **Specify Storage Quantities (Optional).** Specify maximum storage quantities where facility storage is close to regulatory threshold, and establish strict inventory and procurement controls to ensure that this storage amount is not exceeded.

d. **Update Notifications to Host Command.** Notify the host command as needed of any significant changes in storage quantities or product information.

6. **Host command Requirements.**

**Notifications to Local Agencies.** Coordinate determination of those products at the facility that meet threshold, and provide notifications to local agencies as required.

**Exhibit 5-1 Sample CG Format for EPCRA 311 Reporting to Local Agencies**

(Note: this may be provided as an enclosure to the notification letter to SERC, and LEPC)

Chemical or Common name	Hazard Category				
	(1)	(2)	(3)	(4)	(5)
- Gasoline, Regular Unleaded	X	X	X		
- Turbine Fuel, JP-5	X	X	X		
- Diesel Fuel, Marine	X	X	X		
- Diesel Fuel, No. 2 Heating	X	X	X		

**Hazard Category:**

- (1) Immediate (acute) health hazard
- (2) Delayed (chronic) health hazard
- (3) Fire hazard
- (4) Sudden release of pressure
- (5) Reactive

## E. EPCRA Section 312, Tier II Reporting

### 1. General.

Facilities that must report under EPCRA 311, must also report under 312. The EPA regulations regarding EPCRA 312 are found in 40 CFR 370.

### 2. Reporting

a. **Tier II Reports.** CG facilities must annually submit by 1 March, a report on the products that meet the 10,000 pound or EHS storage threshold. States vary in their requirements; reports are required on either the federal Tier I or Tier II form, or States have their own form. **CG facilities shall report in accordance with specific State requirements.** Most States require the Tier II form. The information requirement in the Tier II form includes basic facility identification, chemical description, and inventory data; a copy is provided in Appendix (4). Appendix (3) is a complete state listing of EPCRA points of contact; it also lists the state's reporting requirements.

b. **Agency Reports.** Tier II reports shall be submitted to the following local agencies:

Local Fire Department,  
State Emergency Response Commission (SERC), and  
Local Emergency Planning Committee (LEPC).

c. **Mixtures (Products).** The regulations require that if the "mixture" (product) option is chosen for reporting under 311, then "mixtures" (products) must be reported in 312 as well. **CG facilities shall report mixtures (products) on Tier II forms, in lieu of individual chemicals.**

### 3. Exemptions/Clarifications.

a. **Exemptions.** With the exception of reporting of EHSs, exemptions and clarifications that apply to Section 311 of EPCRA (as previously explained in Chapter 5 Section D) apply to 312 reporting.

b. **EHSs.** Determination of the need to report EHSs on the Tier II forms must be based on the total amount of EHS in all forms present at the facility. All products that have EHSs in pure form or mixtures must be aggregated to determine if threshold is met. Products with non-EHS constituents should not be aggregated.



4. **Tenant Command Requirements.**

**Institutionalize Annual Procedures.** Coordinate closely with the host command to annually validate product storage information, and provide the host command with information necessary to complete the Tier II reports. This can best be accomplished after conducting the annual physical inventory On Or About 1 January, required for HMMS administration (See Chapter 2).

5. **Host Command Requirements.**

**Annual Reporting.** Coordinate determination of those products at the facility that meet threshold, prepare and submit the Tier II Report to local agencies NLT 1 March.

## F. EPCRA Section 313, Toxic Release Inventory Reports

### 1. General.

a. **Activity Thresholds.** CG facilities that "Manufacture", "Process" or "Otherwise Use" *toxic chemicals* in quantities that exceed thresholds, will need to complete a *Toxic Chemical Release Inventory Form R (TRI Form R)*. EPCRA 313 regulations are found in 40 CFR 372. Federal 313 regulatory requirements, and EPA interpretive guidance have been incorporated into the requirements set forth in this section. Chemical lists are included in the Appendices (1) and (2). A brief definition and the quantity thresholds for the three covered activities are:

Manufacture: The term "manufacture" means to produce, prepare, compound, or import a listed toxic chemical. The threshold is 25,000 pounds per year.

Process: The term "process" means the preparation of a listed toxic chemical (after its manufacture) for distribution. The threshold is 25,000 pounds per year.

Otherwise Use: The term "otherwise use" encompasses any activity involving a listed toxic chemical at a facility that does not fall under the definitions of "manufacture" or "process". The threshold is 10,000 pounds per year.

b. **Small Coast Guard Facilities.** Consistent with CG pollution prevention policy, all CG units are required to identify products that contain *toxic chemicals*, record this information appropriately in the unit HMMS, and take proactive steps to reduce unnecessary storage and use of these products. The vast majority of CG *facilities* do not have EPCRA 313 reporting requirements. Unless you have been directed by your host command to participate in EPCRA 313 threshold calculations, **SKIP IMMEDIATELY TO PARAGRAPH 5 OF THIS SECTION.**

c. **Large Coast Guard Facilities.** Analysis of the scope of CG operations, in comparison to 313 thresholds and regulatory exemptions, indicate that only those *facilities* that have industrial activity, or use large quantities of jet fuel will potentially have EPCRA 313 reporting requirements. However, at those facilities where these operations and activities are present, all tenant commands are required to evaluate their hazardous material uses for 313 applicability. Only facilities specifically notified by COMDT are required to make threshold determinations.

### 2. Reporting.

a. **TRI Form R.** TRI Form Rs are submitted by July 1 for the preceding calendar year to the *SERC* and the EPA EPCRA Reporting Center. Facilities required to prepare TRI Reports shall submit Draft Reports to COMDT(G-ECV-1) by 1 May for the preceding calendar year. COMDT(G-ECV-1) will review and clarify these reports for CG-wide consistency; and send reports to respective agencies by 1 July.

b. **Estimating TRI Releases.** General guidance for completing the TRI Form R is available in EPA Pub 745-K-93-001 entitled "Toxic Chemical Release Inventory Reporting Form R and Instructions", and EPA Pub 560/4-88-002, entitled "Estimating Releases and Waste Treatment Efficiencies for the Toxic Release Inventory Form". These publications may be ordered through the *EPCRA HOTLINE*. Specific guidance on the methods to be used by covered CG units to estimate releases will be coordinated by COMDT(G-ECV-1).

c. **Release Reduction Goals.** As required by the EO, covered *facilities* shall reduce TRI releases by at least 50% by the year 1999. Calendar year 1994 establishes the baseline year for reporting TRI releases. Releases include any fugitive emissions, spills, and any off-site transfers for waste disposal.

d. **Facility P2 Plans.** The EO requires facilities preparing TRI Reports to have Facility Pollution Prevention Plans that specify how TRI releases will be reduced by 50% by 1999. Facilities shall prepare these Plans after calendar year 1994 baseline data is established. COMDT(G-ECV-1) will coordinate and provide assistance in preparing these plans through direct correspondence with the unit.

e. **Weight of toxic chemicals.** The EPCRA 313 quantity thresholds apply to the actual concentration/weight of the *toxic chemical* in the product, not the weight of the total product. Calculation of the weight of *toxic chemical* is generally determined from information available on the MSDS. All weights shall be expressed in pounds. A worksheet for making threshold calculations has been developed as part of the HMMS, see Exhibit 2-3.

f. **Chemical Name Synonyms.** There are numerous synonyms for each of the toxic chemicals on the 313 List. MSDSs may list the synonym, not the actual listed chemical. Recognizing this problem, the EPA has issued Pub 744-B-92-001, entitled "Common Synonyms For Chemicals Listed Under 313 of EPCRA". Units may order this publication by calling the EPA *EPCRA HOTLINE*.

### 3. **Exemptions.**

The EPA has excluded certain "uses" of toxic chemicals from threshold determinations and reporting because of the difficulties in tracking small or diffuse quantities of these listed chemicals. These exemptions can be applied at CG *facilities* in making EPCRA, 313 threshold calculations as explained in the following subparagraphs. The exemptions stated previously in this Chapter for other sections of EPCRA do not apply in making EPCRA 313 threshold calculations.

a. **Ancillary Support.** Executive Order 12856 makes EPCRA applicable to all federal facilities. The EPA requires that threshold determinations for federal facilities focus efforts on the uses of 313 toxic materials which support the "primary mission" of the facility. The primary mission refers to the facility's chief responsibility, including activities integral to the fulfillment of that responsibility. Generally, the "Primary Mission" criteria means that uses of toxic materials in "Ancillary Support" activities are exempt from EPCRA 313 threshold calculations, and that some of the regulatory exemptions applicable to industry do not apply to federal facilities. For example, routine janitorial and facility grounds maintenance is ancillary support. Consequently, products or items containing toxic chemicals that are used for routine janitorial and facility grounds maintenance are exempt from

a. **Ancillary Support (cont'd)** reporting (e.g. cleaning supplies, fertilizers, and pesticides similiar in type or concentration available in consumer products). Therefore, facilities do not have to report the use of toxic chemicals for lawn maintenance, building maintenance, and grounds maintenance.

b. **Determining Ancillary (Exempt) Status.** A matrix of exempt and non-exempt activities is provided in Exhibit 5-2. This matrix is intended as a guide, and the Commanding Officers of the host and tenant commands shall determine exempt/non-exempt activities/uses. Organizational elements that perform both exempt and non-exempt activities may have difficulty differentiating uses of chemicals. Where uses cannot be determined "exempt" by some logical method, the chemical use shall be included in threshold calculations.

c. **Deminimus limits.** Products with "de minimus" concentrations of "toxic chemicals" are exempt. This means less than 1% by weight if non-carcinogenic, less than 0.1% if carcinogenic. Deminimus concentrations are tabulated in the 313 list of chemicals provided in the appendices.

d. **Chemicals Contained in Equipment, Tools, and Other Articles.** "Article" uses are exempt. These are manufactured items that have been formed into a specific shape or design, and "use" does not change that shape or design. For example, copper is a 313 listed chemical category, but reporting the use of copper pipe in plumbing installations, or the copper wiring in electric motors, is exempt. Batteries (all types) are another common example of "articles" that are exempt.

e. **Motor Vehicle Maintenance.** Products containing toxic chemicals used in maintenance performed on the administrative vehicles operated by the facility are exempt from reporting (e.g. cars, trucks, vans, forklifts, private vehicles or any other vehicle that can be categorized as ancillary support).

f. **Offsite Maintenance.** Maintenance performed offsite on tactical vehicles (e.g. boats, ships, and planes) is exempt. For example, maintenance performed on a cutter in-port by unit personnel is exempt, maintenance performed by the Group Engineer, Industrial Support Activity, or NESU is not exempt.

g. **Laboratory Activity.** Toxic chemicals used in a laboratory for quality control, research and development, and other laboratory uses are exempt from reporting. To be exempt, the chemical must be used directly in, or produced as a result of, a laboratory activity; and the use must occur under the direct supervision of a technically qualified individual.

h. **Structural Component Use.** This exemption applies to toxic chemicals that are used in or as a result of passive use and includes passive dedgradation such as corrosion or abrasion which naturally occurs in buildings, pipes, and other structural components. Toxic chemicals which become part of the structure are also exempt. For example, solvents and other toxic chemicals in paints used to maintain the physical integrity of a facility (as well as such structures as port cranes, hangars, barracks, etc) are exempt.

i. **Personal Use.** Products containing toxic chemicals used by employees or other persons for their own personal use are exempt from reporting (e.g. galley, CGES, MWR, or medical clinic activities). Types of products that are used for "personal use" include food, drugs, cosmetics, office supplies, and other personal items. The exemption also covers refrigerants used solely for employee climate control; it would not cover for example climate control for the communications center. Similarly, chlorine used in on-site swimming pools for employee recreational use and chlorine used in treating drinking water is exempt. However, chlorine used for treating swimming pools used solely for training of CG personnel would not be exempt.

j. **Intake Water/Air Use.** Process water or non-contact cooling water drawn from the environment or municipal sources, and air drawn for compressed air or combustion, and then returned to the environment is exempt from reporting.

#### 4. **Clarifications.**

a. **Fuels.** Fuels are the largest and most complex category of products for which the CG must prepare TRI reports. Fuels contain literally hundreds of chemicals, some of which are listed 313 *toxic chemicals*. The following guidance applies to the "use" of fuels:

**Use Default Constituent Concentrations.** A great deal of effort can be spent at the unit to research fuel constituents, instead, all CG units shall use the default values listed in Exhibit 5-3 of this Section to make threshold calculations. Fuels are produced using performance based specifications, e.g. they are not specified by constituent. Constituent contents vary greatly depending on the source of crude oil and the manufacturing process used in producing the fuel. For these reasons, the MSDSs for fuel products do not provide enough information for constituent calculations.

**Exempt Fuels.** Diesel fuels, heating Fuels, JP-5, JP-8, and Jet-A are exempt from TRI reporting; they do not contain toxic chemicals above de minimus concentrations. Threshold calculations do not need to be performed for these fuels.

**Non-Exempt Fuels.** Gasoline and JP-4 contain toxic chemicals above de minimus concentrations. Threshold calculations must be performed for these fuel uses. *Facilities* may use the "ancillary support" criteria and the "personal use" exemption where appropriate to eliminate certain fuel uses (e.g. count only the "primary mission" fuel uses).

**Vessels and Aircraft.** Fuels for vessels and aircraft are not "used" at the facility. Fuel is used in flight or underway, therefore no "releases" occur at the *facility* stemming from fuel "use". **However**, there are releases from shore-side ASTs and USTs in the form of vapor and leaks or spills. The relevant "use" for determining if threshold quantity is met, is the quantity of fuel throughput in Coast Guard owned ASTs and USTs. For example, when CG vessels or aircraft receive their fuel directly from a vendor or some other Agency, the CG has no reporting requirement. When fuel comes from a CG owned AST or UST, it is considered "used" for purposes of 313 threshold calculations.

b. **Engine and equipment fluids.** For engine and equipment fluids, the quantity "used" applies to the 313 chemicals, (e.g. halons and refrigerants) changed/added throughout the year. "Use" does not include what is in the equipment.

c. **Ordnance.** The Coast Guard follows DOD position on ordnance and munitions. Uses and releases of ordnance will not be included in 313 threshold calculations.

d. **Sandblasting.** Sandblasting operations may meet reporting thresholds for copper, lead, and mercury. The appropriate activity category to apply is "manufacturing"; e.g. use the 25,000 pound threshold. Note, it is the concentration/weight of these chemicals in the throughput process that is important in making threshold calculations, not amounts contained in the wastes generated.

e. **Warehousing.** If the warehouse is only storing toxic chemicals, then the warehouse contents **are not** used in threshold calculations. Repackaging (e.g., pouring the contents of a 55 gallon drum into smaller containers) at a warehouse is considered processing and the quantities of the toxic chemicals repackaged **would** have to be factored into threshold determinations for the chemical. Simply relabeling or removal and distribution of prepackaged quantities from a shrink wrapped shipment of such packages **is not** considered processing.

5. **Tenant Command Requirements.**

a. **HMMS Records.** Identify products that contain toxic chemicals, and record this information appropriately in the unit HMMS records (See Chapter 2).

b. **TQM.** Employ TQM techniques to reduce unnecessary storage and use of products that contain toxic chemicals.

c. **Threshold Determinations (Limited Applicability).** Unless otherwise directed by your host command, there is no requirement to make EPCRA 313 threshold determinations.

6. **Host Command Requirements.**

a. **Threshold Determinations (Limited Applicability).** If directed by COMDT to proceed with 313 threshold determinations, coordinate data collection from tenant commands at the facility.

b. **TRI Data Collection.** Develop TRI data collection and tracking plans to meet Form R requirements, for each chemical at the facility that meets threshold. Coordinate closely with COMDT(G-ECV-1) in making these calculations.

c. **TRI Report Submission.** Prepare and submit TRI Form R Reports to COMDT(G-ECV-1) by 1 May.

d. **Facility P2 Plans.** Coordinate development of Facility P2 Plans with COMDT(G-ECV-1).

**Exhibit 5-2 Activity Exemptions**

Activity Description	Requires 313 Threshold Calculations	
	YES	NO
"Ancillary Support" Functions		
Facility Operations and Maint		X
Utility Operation and Maintenance		X
Grounds Operations and Maintenance		X
Administrative Vehicle O&M		X
Cars, trucks, vans, heavy equip		
Medical Support		X
Family Housing Support		X
NAFA Support		X
Administrative Support		X
MWR Support		X
Comptroller/Warehousing Support		X
Other Office/Staff Support		X
Small Arms Ranges; personal use		X
CG Operations and		
"Primary Support" Functions:		
ATON O&M	X	
Industrial/NESU Activities	X	
Vessel/Small Boat O&M	X	
Aircraft O&M	X	
Electronic/EMD O&M	X	
VTS O&M	X	
Small Arms Ranges; official training	X	
Tactical Vehicle O&M		
Aircraft Ground Support Equipment	X	
Ind/Ops Forklifts, Mules, Cranes	X	

Exhibit 5-3 313 Toxic Chemical Constituents of Fuel Products

Fuel Category/ Primary Use	*TRI Components Concentration	Deminimus Concentration	Percent By Weight (Avg)	**Annual Use (Gallons)
Gasoline, Premium Unleaded (7.30 lbs/gal)	Benzene	0.1	2.2	10,786
	Cyclohexane	1.0	2.0	
	Ethylbenzene	1.0	1.5	
	Toluene	1.0	12.7	
	1,2,4 Trimethyl- benzene	1.0	4.3	
	Xylene(o,m.& p)	1.0	7.6	
Gasoline, Regular Unleaded (7.30 lbs/gal)	Benzene	0.1	1.8	19,026
	Cyclohexane	1.0	1.3	
	Ethylbenzene	1.0	1.6	
	Toluene	1.0	6.4	
	1,2,4 Trimethyl- benzene	1.0	2.6	
	Xylene(o,m.& p)	1.0	7.2	
Jet Fuel, JP-4 (6.37 lbs/gal)	Cyclohexane	1.0	1.2	No longer available through DLA as of April 1994
	Benzene	0.1	1.0	
	Toluene	1.0	3.2	
	Xylene(o,m.& p)	1.0	3.2	
	1,2,4 Trimethyl- benzene	1.0	1.0	
Jet Fuel, JP-5 (6.65 lbs/gal)	None above deminimus	N/A	N/A	Exempt
Jet Fuel, JP-8 (6.65 lbs/gal)	None above deminimus	N/A	N/A	Exempt
Jet Fuel, Jet-A (6.65 lbs/gal)	None above deminimus	N/A	N/A	Exempt
Diesel, All types (6.65 lbs /gal)	None above deminimus	N/A	N/A	Exempt
No. 2 Htg Fuel Oil (7.31 lbs/gal)	None above deminimus	N/A	N/A	Exempt

\* Only TRI constituents above deminimus concentrations are listed.

\*\* The gallon threshold is the maximum amount of "primary mission" fuels that can be used at a facility before exceeding TRI reporting threshold. The threshold is based on the largest (by weight) TRI constituent in the fuel. CAUTION, if more than one type of fuel is used at a facility, then calculate cumulative total of each chemical in the various fuels (and other products used at the facility) to determine if the 10,000 pound reporting threshold is met. (Pounds used = Unit weight x quantity x percent concentration/100).



**Appendix 1**

**SARA TITLE III  
CONSOLIDATED CHEMICAL LIST  
Sorted by Chemical Abstract Registry Number**

**A. General.**

1. The consolidated chemical listing includes all chemicals subject to *EPCRA* planning and reporting requirements, specifically *EPCRA* 302, 304, and 313. The chemical listing contains additional information as well, e.g. CAS registry number, *TPQ*, *RQ*, and de minimus concentrations where applicable.

2. The EPA does add and delist chemicals on occasion. COMDT (G-ECV-1) will issue updates as the list changes. The list has been sorted two ways:

Appendix 1 - Sorted by Chemical Abstract Service (CAS) registry number.

Appendix 2 - Sorted by Alphabetical Name of the chemical.

**B. Column Explanations.**

Column (A) - Chemical name; note that a given chemical may be listed several times because it has synonyms that are commonly used.

Column (B) - Commonly known alternate name.

Column (C) - CAS Registry number. The Chemical Abstract Service registers chemicals by assigning discrete identifying numbers. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names.

Column (D) - An "X" denotes that the chemical is an Extremely Hazardous Substances (*EHS*) and listed under *EPCRA* 302. The Threshold Planning Quantity (*TPQ*) is listed under column (H).

Column (E) - An "X" denotes that the chemical is listed under *EPCRA* 313.

Column (F) - An "X" denotes that the chemical is listed under the Comprehensive Environmental Response, Compensation, and Liability Act as amended (*CERCLA*, or "Superfund"). Releases of listed chemicals are reportable to the National Response Center, and now (because of *EPCRA* 304) also to the *SERC* and *LEPC*. This document also includes chemicals added to the *CERCLA* list because they are listed as hazardous air pollutants under section 112(b) of the Clean Air Act (CAA).

Column (G) - An "X" denotes that the chemical is a RCRA chemical from the P and U lists (40 CFR 261.33)

**B. Column Explanations. cont'd.**

Column (H) - Threshold Planning Quantity (*TPQ*) for Extremely Hazardous Substances (*EHSs*) listed under EPCRA 302 (in pounds). For chemicals that are solids, there may be two *TPQs* given (e.g., 500/10,000). In these cases, the lower quantity applies for solids in powder form with particle size less than 100 microns, or if the substance is in solution or in molten form. Otherwise, the 10,000 pound *TPQ* applies.

Column (I) - De Minimus concentrations for chemicals that listed under EPCRA 313. Concentrations are 0.1% by weight for carcinogenic chemicals, and 1.0% for non-carcinogenic.

Column (J) - Reportable Quantities (*RQ*) under CERCLA. An asterisk ("\*") following the *RQ* indicates that no reporting of releases is required if the diameter of the pieces of the solid metal released is 100 micrometers (0.004 inches) or greater. Substances listed under CAA 112(b) that have been added to the *CERCLA* list with statutory one-pound *RQs* are indicated by a plus sign ("+") following the *RQ*. *EHS RQ*. Releases of reportable quantities (*RQ*) of *EHSs* are subject to state and local reporting under 304. If a chemical listed under 302 does not have a *CERCLA RQ*, a statutory *RQ* of one pound applies for 304 reporting.

Column (K) - RCRA P and U Codes.

All EPCRA 302/313 and CERCLA Chemicals

June 1994

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted by Chemical Abstract Service CNS Number)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CNS NUMBER (C)	EPCRA 302				EPCRA 302 TQ (H)	Definition Concent. (I)	RD (J)	RCA CODE (K)
			(D)	(E)	(F)	(G)				
Formaldehyde	FORMALDEHYDE	50000	X	X	X	X	500	0.1	100	U122
Mitomycin C	MITOMYCIN C	50077	X	X	X	X	500/10,000		10	U010
Ergocalciferol	ERGOCALCIFEROL	50180	X				1,000/10,000		10	U058
Cyclophosphamide	CYCLOPHOSPHAMIDE	50293	X	X	X	X			10	U061
DDT	DDT	50328	X	X	X	X			1	U022
Benzo[a]pyrene	BENZOPYRENE	50554	X	X	X	X			5,000	U000
Reserpine	RESERPINE	51218	X	X	X	X	500/10,000		10	F048
Fluorouracil	FLUOROURACIL	51285	X	X	X	X		1.0	1,000	F042
2,4-Dinitrophenol	DINITROPHENOLS	51434	X	X	X	X			1	
Epinephrine	EPINEPHRINE	51752	X	X	X	X		10	0.1	1
Mechlorethamine	MECHLORETHAMINE	51752	X	X	X	X		10	0.1	100
Nitrogen mustard	NITROGEN MUSTARD	51752	X	X	X	X		10	0.1	100
Carbamic acid, ethyl ester	CARBAMIC ACID, ETHYL ESTER	51796	X	X	X	X			0.1	100
Ethyl carbamate	ETHYLCARBAMATE	51796	X	X	X	X			0.1	100
Urethane	URETHANE	51796	X	X	X	X			0.1	100
Carbonyl chloride	CARBONYL CHLORIDE	52686	X	X	X	X	500/10,000		1.0	100
Trichlorfon	TRICHLORFON	52686	X	X	X	X			1.0	100
Famphur	FAMPHUR	52857	X	X	X	X			1,000	F097
Dibenz[a,h]anthracene	DIBENZANTHRACENE	53703	X	X	X	X			1	U063
2-Nonylphenylfluorene	2-NONYLPHENYLFLUORENE	53863	X	X	X	X		0.1	100	U005
Nicotine	NICOTINE	54115	X	X	X	X	100		100	F075
Nicotine and salts	NICOTINE AND SALTS	54115	X	X	X	X			100	F075
Pyridine, 3-(1-methyl-2-pyrrolidyl)-, (S)-	PYRIDINE(1-METHYL-2-PYRROLIDINYL)-(S)-	54115	X	X	X	X	100		100	F075
Aminopterin	AMINOPTERIN	54626	X	X	X	X	500/10,000		1	U174
N-Nitrosodiethylamine	N-NITROSODIETHYLAMINE	55185	X	X	X	X		0.1	1	
Benzamide	BENZAMIDE	55310	X	X	X	X		1.0	1	
Nitroglycerin	NITROGLYCERINE	55630	X	X	X	X		1.0	10	F081
Diisopropyl fluorophosphate	DIISOPROPYLFLUOROPHOSPHATE	55914	X	X	X	X	100		100	F043
Isoflurophate	ISOFUROPHATE	55914	X	X	X	X	100		100	F043
Methylthiouracil	METHYLTHIURACIL	56042	X	X	X	X			10	U164
Carbon tetrachloride	CARBON TETRACHLORIDE	56235	X	X	X	X	100/10,000	0.1	10	U211
Cantharidin	CANTHARIDIN	56257	X	X	X	X			10	F089
Parathion	PARATHION	56382	X	X	X	X	100	1.0	10	U157
3-Methylcholanthrene	METHYLCHOLANTHRENE	56495	X	X	X	X			10	U157
Diethylstilbestrol	DIETHYLSTILBESTROL	56531	X	X	X	X			1	U069
Benz[a]anthracene	BENZANTHRACENE	56553	X	X	X	X			10	U018
Coumaphos	COUMAPHOS	56724	X	X	X	X	100/10,000		10	F030
Cyanides (soluble salts and complexes)	CYANIDES (SOLUBLE SALTS AND COMPLEXES) NOT OTHERWISE	57125	X	X	X	X			10	U098
1,1-Dimethyl hydrazine	DIMETHYLHIDRAZINE	57147	X	X	X	X	1,000	0.1	10	U098
Dimethylhydrazine	DIMETHYLHYDRAZINE	57147	X	X	X	X	1,000	0.1	10	U098
Hydrazine, 1,1-dimethyl-	HYDRAZINEDIMETHYL-	57147	X	X	X	X	1,000	0.1	10	U098
Strychnine	STRYCHNINE	57249	X	X	X	X	100/10,000		10	F108
Strychnine, and salts	STRYCHNINE, AND SALTS	57249	X	X	X	X			10	F108
Physostigmine	PHYSOSTIGMINE	57476	X	X	X	X	100/10,000		1	
beta-Propiolactone	BETA-PROPIOLACTONE	57578	X	X	X	X	500		1	
Physostigmine, salicylate (1:1)	PHYSOSTIGMINE, SALICYLATE (1:1)	57647	X	X	X	X	100/10,000	0.1	1	
Chlordane	CHLORDANE	57749	X	X	X	X	1,000	1.0	1	U036
7,12-Dimethylbenz[a]anthracene	DIMETHYLBENZANTHRACENE	57976	X	X	X	X			1	U094
Hexaxarsine, 10,10'-oxydi-	HEXAXARSINE, 10,10'-OXYDI-	58356	X	X	X	X	500/10,000		1	
Hexachlorocyclohexane (gamma isomer)	HEXACHLOROCYCLOHEXANE (GAMMA ISOMER)	58899	X	X	X	X	1,000/10,000	0.1	1	U129
Lindane	LINDANE	58899	X	X	X	X	1,000/10,000	0.1	1	U129
2,3,4,6-Tetrachlorophenol	TETRACHLOROPHENOL	58902	X	X	X	X			10	U112
p-Chloro-o-cresol	CHLORO-CRESOL	59507	X	X	X	X			5,000	U039
Phenylhydrazine hydrochloride	PHENYLHYDRAZINE HYDROCHLORIDE	59881	X	X	X	X	1,000/10,000	0.1	1	
N-Nitrosophthaline	N-NITROSCOPHTHALINE	59892	X	X	X	X			1	
Ethyleneimine-tetracetic acid (EDTA)	ETHYLENEDIAMINE-TETRACETIC ACID (EDTA)	60004	X	X	X	X			5,000	
4-Aminoazobenzene	AMINOAZOBENZENE	60093	X	X	X	X		0.1	10	U093
4-Dimethylaminoazobenzene	DIMETHYLAMINOAZOBENZENE	60117	X	X	X	X		0.1	10	U093
Dimethylaminoazobenzene	DIMETHYLAMINOAZOBENZENE	60117	X	X	X	X		0.1	100	U117
Ethyl ether	ETHYLENER	60237	X	X	X	X			100	F068
Methyl hydrazine	METHYLHYDRAZINE	60344	X	X	X	X	500	1.0	10	
Acetamide	ACETAMIDE	60355	X	X	X	X		0.1	1	
Strychnine, sulfate	STRYCHNINE, SULFATE	60413	X	X	X	X	100/10,000		1	
Dimethoate	DIMETHOATE	60515	X	X	X	X	500/10,000		10	F046
Dieldrin	DIELDRIN	60571	X	X	X	X			1	F057
Amitrole	AMITROLE	61825	X	X	X	X		0.1	10	U011
Phenylmercuric acetate	PHENYL MERCURIC ACETATE	62384	X	X	X	X	500/10,000		100	F052
Phenylmercury acetate	PHENYL MERCURY ACETATE	62384	X	X	X	X	500/10,000		100	F052
Phenacetin	PHENACETIN	62442	X	X	X	X			100	U187
Ethyl methanesulfonate	ETHYL METHANESULFONATE	62500	X	X	X	X			1	U119
Aniline	ANILINE	62533	X	X	X	X	1,000	1.0	5,000	U012
Thioacetamide	THIOACETAMIDE	62535	X	X	X	X		0.1	10	U218

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA				EPCRA 302 TRQ (H)	Definition Concent. (I)	RD (J)	RCRA CODE (K)
			302 (D)	313 (E)	CERCLA (F)	RCRA (G)				
Thiourea	THIOUREA	62566		X	X	X		0.1	10	U219
Dichlorvos	DICHLORVOS	62737	X	X	X	X	1,000	1.0	10	
Fluoroacetic acid, sodium salt	FLUOROACETIC ACID, SODIUM SALT	62748	X	X	X	X	10/10,000		10	P056
Sodium fluoracetate	SODIUM FLUOROACETATE	62748	X	X	X	X	10/10,000		10	P058
Methanamine, N-methyl-N-nitroso-	METHANAMINE, N-METHYL-N-NITROSO-	62759	X	X	X	X	1,000	0.1	10	P062
N-Nitrosodimethylamine	NITROSODIMETHYLAMINE	62759	X	X	X	X	1,000	0.1	10	P062
Nitrosodimethylamine	NITROSODIMETHYLAMINE	62759	X	X	X	X	1,000	0.1	10	P082
Carbaryl	CARBARYL	63252	X	X	X	X		1.0	100	
Phenyl 3-(1-methylethyl)-, methylocarbamate	PHENYL 3-(1-METHYLETHYL)-, METHYLOCARBAMATE	64006	X	X	X	X				
Formic acid	FORMIC ACID	64186		X	X	X	500/10,000	1.0	5,000	U123
Acetic acid	ACETIC ACID	64197		X	X	X			5,000	
Diethyl sulfate	DIETHYLSULFATE	64675	X	X	X	X		0.1	10	
Colchicine	COLCHICINE	64868	X	X	X	X	10/10,000		10	
Nicotine sulfate	NICOTINE SULFATE	65305	X	X	X	X	100/10,000		1	
Benzoic acid	BENZOIC ACID	65850		X	X	X			5,000	
Uracil mustard	URACIL MUSTARD	66751		X	X	X			10	U237
Cycloheximide	CYCLOHEXIMIDE	66819	X	X	X	X	100/10,000		1	
Methanol	METHANOL	67561		X	X	X		1.0	5,000	U154
Isopropyl alcohol (mfg-strong acid process)	ISOPROPYLALCOHOL	67561		X	X	X		0.1	10	
Acetone	ACETONE	67641	X	X	X	X		1.0	5,000	U002
Chloroform	CHLOROFORM	67663	X	X	X	X	10,000	0.1	10	U044
Hexachloroethane	HEXACHLOROETHANE	67771	X	X	X	X		1.0	100	U131
Dimethylformamide	DIMETHYLFORMAMIDE	68122		X	X	X			10	
Triaziquone	TRIAZIQONE	68768		X	X	X		0.1	10	U163
Quinidine, N-methyl-N'-nitro-N-nitroso-	QUINIDINE, N-METHYL-N'-NITRO-N-NITROSO-	70257	X	X	X	X		1.0	100	U132
Hexachlorophene	HEXACHLOROPHENE	70304	X	X	X	X		1.0	100	
Propofenone, 4'-amino	PROPOFENONE, 4'-AMINO	70699	X	X	X	X	100/10,000		1	
n-Butyl alcohol	n-BUTYLALCOHOL	71363		X	X	X		1.0	5,000	U033
Benzene	BENZENE	71432	X	X	X	X		0.1	10	U039
1,1,1-Trichloroethane	TRICHLOROETHANE	71556	X	X	X	X		1.0	1,000	U226
Methyl chloroform	METHYLCHLOROFORM	71556	X	X	X	X		1.0	1,000	U226
Digitoxin	DIGITOXIN	71636	X	X	X	X	100/10,000		1	
Endrin	ENDRIN	72208	X	X	X	X	500/10,000		1	P051
Methoxychlor	METHOXYCHLOR	72435		X	X	X		1.0	1	U247
DDE	DDE	72548		X	X	X			1	U060
DDE	DDE	72559		X	X	X			1	
Trypan blue	TRYPAN BLUE	72571		X	X	X		0.1	10	U236
Bromomethane	BROMOMETHANE	74839	X	X	X	X	1,000	1.0	1,000	U029
Methyl bromide	METHYLBROMIDE	74839	X	X	X	X	1,000	1.0	1,000	U029
Ethylene	ETHYLENE	74851		X	X	X		1.0	100	
Chloromethane	CHLOROMETHANE	74873	X	X	X	X		1.0	100	U045
Methyl chloride	METHYLCHLORIDE	74873	X	X	X	X		1.0	100	U045
Methyl iodide	METHYLIODIDE	74884	X	X	X	X		0.1	100	U138
Hexamethylenimine	HEXAMETHYLENIMINE	74895		X	X	X		1.0	100	
Hydrocyanic acid	HYDROCYANIC ACID	74908	X	X	X	X	100	1.0	10	P063
Hydrogen cyanide	HYDROGENCYANIDE	74908	X	X	X	X	100	1.0	10	P063
Methyl mercaptan	METHYLMEERCAPTAN	74931	X	X	X	X	500	1.0	100	U153
Thiomethanol	THIOMETHANOL	74931	X	X	X	X	500	1.0	100	U153
Methylene bromide	METHYLENEBROMIDE	74953	X	X	X	X		1.0	1,000	U066
Chloroethane	CHLOROETHANE	75003	X	X	X	X		1.0	100	
Ethyl chloride	ETHYLCHLORIDE	75003	X	X	X	X		1.0	100	
Vinyl chloride	VINYLCHLORIDE	75014	X	X	X	X		0.1	1	U043
Monomethylamine	MONOMETHYLAMINE	75047		X	X	X			100	
Acetonitrile	ACETONITRILE	75058		X	X	X		1.0	5,000	U003
Acetaldehyde	ACETALDEHYDE	75070		X	X	X		0.1	1,000	U001
Dichloromethane	DICHLOROMETHANE	75092	X	X	X	X		0.1	1,000	U080
Methylene dichloride	METHYLENECHLORIDE	75092	X	X	X	X		0.1	1,000	U080
Carbon disulfide	CARBONDISULFIDE	75150	X	X	X	X	10,000	1.0	100	P022
Calcium carbide	CALCIUMCARBIDE	75207		X	X	X			10	
Ethylene oxide	ETHYLENEOXIDE	75218	X	X	X	X	1,000	0.1	10	U115
Oxirane	OXIRANE	75218	X	X	X	X	1,000	0.1	10	U115
Bromoform	BROMOFORM	75252		X	X	X		1.0	100	U225
Trichloroethane	TRICHLOROETHANE	75252		X	X	X		1.0	100	
Dichlorobromoethane	DICHLOROBROMOETHANE	75274		X	X	X		1.0	5,000	U225
1,1-Dichloroethane	DICHLOROETHANE	75343		X	X	X		1.0	1,000	U076
1,1-Dichloroethylene	DICHLOROETHYLENE	75354	X	X	X	X		1.0	100	U078
Vinylidene chloride	VINYLDIENECHLORIDE	75354	X	X	X	X		1.0	100	U078
Acetyl chloride	ACETYLCHLORIDE	75365		X	X	X		5,000		U006
Phosgene	PHOSGENE	75445	X	X	X	X	10	1.0	10	P095
Chlorodifluoroethane (HCFC-22)	HCFC-22	75456		X	X	X			1.0	
HCFC-22	HCFC-22	75456		X	X	X			1.0	
Trimethylamine	TRIMETHYLAMINE	75503		X	X	X			100	
Isilidine, 2-methyl	ISILIDINE, 2-METHYL	75588	X	X	X	X	10,000	0.1	1	P067
Propyleneimine	PROPYLENEIMINE	75588	X	X	X	X	10,000	0.1	1	P067
Propylene oxide	PROPYLENEOXIDE	75569	X	X	X	X	10,000	0.1	100	
Sebacic acid	SEBACIC ACID	75605		X	X	X			1	U196

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Bromotrifluoromethane [Halon 1301]	BROMOTRIFLUOROMETHANE	75638		X				1.0		
Halon 1301	HALON1301	75638		X				1.0		
tert-Butylamine	BUTYLAMINE-T	75649			X				1,000	
tert-Butyl alcohol	BUTYLALCOHOL	75650		X				1.0		
1-Chloro-1,1-difluoroethane (HCFC-142b)	HCFC-142b	75663		X				1.0		
HCFC-142b	HCFC-142b	75663		X				1.0		
CFC-11	CFC-11	75694		X	X	X		1.0	5,000	U121
Trichlorofluoromethane [CFC-11]	TRICHLOROFLUOROMETHANE	75694		X	X	X		1.0	5,000	U131
Trichloromonofluoromethane	TRICHLOROMONOFLUOROMETHANE	75694		X	X	X		1.0	5,000	U121
CFC-12	CFC-112	75718		X	X	X		1.0	5,000	U075
Dichlorodifluoromethane [CFC-12]	DICHLORODIFLUOROMETHANE	75718		X	X	X		1.0	5,000	U075
Tetramethyllead	TETRAMETHYLLEAD	75745	X				100			
Trimethylchlorosilane	TRIMETHYLCHLOROSILANE	75774	X				1,000			
Dimethyldichlorosilane	DIMETHYLDICHLOROSILANE	75785	X				500			
Methyltrichlorosilane	METHYLTRICHLOROSILANE	75796	X				500			
Acetone cyanhydrin	ACETONE CYANHYDRIN	75865	X		X	X	1,000			P069
Acetaldehyde, trichloro-	ACETALDEHYDE, TRICHLORO-	75876		X	X				5,000	U034
2,2-Dichloropropionic acid	DICHLOROPROPIONIC ACID	75999		X	X				5,000	
Pentachloroethane	PENTACHLOROETHANE	76017		X	X	X		1.0		U184
Trichloroacetyl chloride	TRICHLOROACETYL CHLORIDE	76028	X				500			
Freon 113	FREON113	76131		X				1.0		
CFC-114	CFC-114	76142		X				1.0		
Dichlorotetrafluoroethane [CFC-114]	DICHLOROTETRAFLUOROETHANE	76142		X				1.0		
CFC-115	CFC-115	76153		X				1.0		
Monochloropentafluoroethane [CFC-115]	MONOCHLOROPENTAFLUOROETHANE	76153		X				1.0		
Heptachlor	HEPTACHLOR	76448		X	X	X		1.0		P059
Hexachlorocyclopentadiene	HEXACHLOROCYCLO	77474	X	X	X	X	100	1.0		U130
Dimethyl sulfate	DIMETHYLSULFATE	77822	X	X	X	X	500	0.1	100	U103
Tabun	TABUN	77816		X			10			
Tetraethyl lead	TETRAETHYLLEAD	78002	X		X	X	100			P110
Dioxathion	DIOXATHION	78342	X				500			
Amiton	AMITON	78535	X				500			
Isophorone	ISOPHORONE	78591	X		X				5,000	
Oxetane, 3,3-bis(chloromethyl)-	OXETANE, 3,3-BIS(CHLOROMETHYL)-	78717		X				500		
Isoprene	ISOPRENE	78795		X					100	
iso-Butylamine	BUTYLAMINE-I	78819		X					1,000	
Isobutyronitrile	ISOBUTYRINITRILE	78830	X							
Isobutyl alcohol	ISOBUTYL ALCOHOL	78831		X	X	X	1,000			U140
Isobutyraldehyde	ISOBUTYRALDEHYDE	78842		X	X	X			1.0	
1,2-Dichloropropane	DICHLOROPROPANE	78875		X	X	X			1.0	U083
Propene 1,2-dichloro-	PROPENE 1,2-DICHLORO-	78875		X	X	X			1.0	U083
2,3-Dichloropropane	DICHLOROPROPENES	78886		X	X				1.0	100
sec-Butyl alcohol	BUTYLALCOHOLS	78922		X	X	X			1.0	
Methyl ethyl ketone	METHYLETHYLKETONE	78933		X	X	X			5,000	U159
Methyl ethyl ketone (MEK)	METHYLETHYLKETONE (MEK)	78933		X	X	X			5,000	U159
Methyl vinyl ketone	METHYLVINYL KETONE	78944	X				10			
Lactonitrile	LACTONITRILE	78977	X				1,000			
1,1-Dichloropropane	DICHLOROPROPANE-A	78999		X	X				1,000	
1,1,2-Trichloroethane	TRICHLOROETHANES	79005		X	X	X			1.0	U227
Trichloroethylene	TRICHLOROETHYLENE	79016		X	X	X			1.0	U228
Acrylamide	ACRYLAMIDE	79061	X	X	X	X	1,000/10,000		0.1	5,000
Propionic acid	PROPIONICACID	79094		X	X	X			5,000	
Acrylic acid	ACRYLICACID	79107		X	X	X			1.0	5,000
Chloroacetic acid	CHLOROACETICACID	79118	X	X	X	X	100/10,000		1.0	1+
Thiosemicarbazide	THIOSEMICARBAZIDE	79196	X	X	X	X	100/10,000		100	P116
Peracetic acid	PERACETICACID	79210	X	X	X	X	500		1.0	
Methyl chloroformate	METHYLCHLOROFORMATE	79221	X	X	X	X	500		1.0	1,000
iso-Butyric acid	BUTYRIC ACID	79312		X	X				5,000	
1,1,2,2-Tetrachloroethane	TETRACHLOROETHANE	79345		X	X	X			0.1	100
Dimethylcarbamyl chloride	DIMETHYL CARBAMYL	79447		X	X	X			0.1	10
2-Nitropropane	NITROPROPANE	79469		X	X	X			1.0	10
4,4'-Isopropylidenediphenol	ISOPROPYLIIDENED	80057		X					0.1	
Canesa hydroperoxide	SOLIMENHYDROPEROXIDE	80159		X	X	X			1.0	10
Hydroperoxide, 1-methyl-1-phenylethyl-	HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL-	80159		X	X	X			1.0	10
Methyl methacrylate	METHYL METHACRYLATE	80626		X	X	X			1.0	1,000
Methyl 2-chloroacrylate	METHYLCHLOROACRYLATE	80637	X				500			
Saccharin (manufacturing)	SACCHARIN	81072		X	X	X			0.1	100
Saccharin and salts	SACCHARIN AND SALTS	81072		X	X	X			100	U202
Warfarin	WARFARIN	81612	X		X	X	500/10,000		100	P001
Warfarin, & salts, conc. >0.3%	WARFARIN SALTS, WHEN PRESENT AT CONCENTRATIONS	81612		X	X	X			100	P001
C.I. Food Red 15	CIFODRED15	81889		X					0.1	
1-amino-2-methylanthraquinone	AMINOETHYLANTH	82280		X					0.1	
Dipicoline	DIPICOLINE	82666	X				10/10,000			
PCNB	PCNB	82688		X	X	X			1.0	100
Pentachloronitrobenzene	PENTACHLORONITROBENZENE (PCNB)	82688		X	X	X			1.0	100
Quinoxaline	QUINOXALINE	82688		X	X	X			1.0	100

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Acenaphthene	ACENAPHTHENE	83329			X				100	
Diethyl phthalate	DIETHYLPHthalate	84662		X	X			1.0	1,000	U088
Dibutyl phthalate	DBUTYLPHthalate	84742		X	X	X		1.0	10	U069
n-Butyl phthalate	BUTYLPHthalate	84742		X	X	X		1.0	10	U069
Diquat	DICUAT	85007		X					1,000	
Fluorethrene	FLUORETHRENE	85018		X					5,000	
Phthalic anhydride	PHthalICANhydRIDe	85449		X	X	X		1.0	5,000	U190
Butyl benzyl phthalate	BUTYLBENZYLPHthalate	85687		X	X			1.0	100	
N-Nitrosodiphenylamine	NITROSODIPHENYLAMINE	86306		X				1.0	100	
Aziraphos-methyl	AZIRAPHOS-METHYL	86500	X		X		10/10,000		1	
Outidion	OUTIDION	86500	X		X		10/10,000		1	
Fluorene	FLUORENE	86737		X					5,000	
Antu	ANTU	86884	X		X	X	500/10,000		100	F072
Thiourea, 1-naphthalenyl-	THIOUREANAPHTHALENYL-	86884	X		X	X	500/10,000		100	F072
2,6-Xylydine	XYLYDINE	87627		X	X			1.0	100	U082
2,6-Dichlorophenol	DICHLOROPHENOL	87627		X	X	X		1.0	100	U128
Hexachloro-1,3-butadiene	HEXACHLOROBTADIDNE	87683		X	X	X		1.0	1	U128
Hexachlorobutadiene	HEXACHLOROBUTADIDNE	87683		X	X	X		1.0	10	U128
PCP	PENTACHLOROPHENOL	87865		X	X	X		1.0	10	U242
Pentachlorophenol	PENTACHLOROPHENOL	87865		X	X	X		1.0	10	U242
Aniline, 2,4,6-trimethyl-	ANILINE, 2,4,6-TRIMETHYL-	88051	X		X		500		1	
2,4,6-Trichlorophenol	TRICHLOROPHENOL-E	88051		X	X	X		0.1	1,000	U231
c-Nitrotoluene	NITROTOLUENE-O	88722		X	X				1,000	
2-Nitrophenol	NITROPHENOLA	88755		X	X			1.0	100	
Dinoseb	DINOSGB	88867		X	X	X	100/10,000		1,000	F020
Picric acid	PICRIC ACID	88891		X	X				1,000	
c-Arisidine	ARISIDINEA	90040		X	X				1+	
2-Phenylphenol	PHENYLPHENOL	90437		X				1.0	100	
Nichlor's ketone	NICHLOR'S KETONE	90448		X				0.1	1	
Toluene-2,6-dithiocyanate	TOLUENE-2,6-DITHIOCYANATEA	91087	X	X	X	X	100		100	
Naphthalene	NAPHTHALENE	91203		X	X	X		1.0	100	U165
Chlorline	CHLORLINE	91805		X	X			1.0	5,000	
o-Chloronaphthalene	CHLORONAPHTHALENE	91857		X	X	X		1.0	5,000	U047
beta-Naphthylamine	NAPHTHYLAMINEB	91598		X	X	X		0.1	10	U166
Methapyllene	METHAPYLLENE	91805		X	X	X		0.1	5,000	U155
3,3'-Dichlorobenzidine	DICHLOROBENZIDINE	91941		X	X	X		1.0	1	U073
Biphenyl	BIPHENYL	92524		X	X	X		0.1	1+	
4-Aminobiphenyl	AMINOBIIPHENYL	92571		X	X			0.1	1+	
Benzidine	BENZIDINE	92875		X	X	X		0.1	1	
4-Nitrobiphenyl	NITROBIIPHENYL	92933		X	X	X		0.1	1+	U021
Silvex (2,4,5-TP)	SILVEX (2,4,5-TP)	93721		X	X	X			100	U233
2,4,5-T acid	T ACID	93765		X	X	X			1,000	U232
2,4,5-T esters	T ESTERS	93798		X	X				1,000	
2,4-D Esters	D ESTERS	94111		X	X				100	
Benzoyl peroxide	BENZOYLPEROXIDE	94360		X	X			1.0	100	
Dihydrocafrrole	DIPHIDROCAFRROLE	94586		X	X	X		0.1	10	U090
Saffrole	SAFFROLE	94597		X	X	X		0.1	100	U203
2,4-D	D	94757		X	X	X		1.0	100	U240
2,4-D Acid	D ACID	94757		X	X	X		1.0	100	U240
2,4-D, salts and esters	D SALTS	94757		X	X	X			100	U240
2,4-D Esters	D ESTERS	94791		X	X				100	
2,4-D Esters	D ESTERS	94804		X	X				100	
Benzene, o-dimethyl-	BENZENE, O-DIMETHYL-	95476		X	X	X		1.0	1,000	U239
o-Xylene	XYLENEB	95476		X	X	X		1.0	1,000	U239
o-Cresol	CRESOLO	95487	X	X	X	X	1,000/10,000		1,000	U052
1,2-Dichlorobenzene	DICHLOROBENZENEA	95501		X	X	X		1.0	100	U076
o-Dichlorobenzene	DICHLOROBENZENE	95501		X	X	X		1.0	100	U070
c-Toluidine	TOLUIDINE	95534		X	X	X		0.1	100	U328
2-Chlorophenol	CHLOROPHENOL	95578		X	X	X			100	U048
1,2,4-Trimethylbenzene	TRIMETHYLENEZ	95536		X	X			1.0	10	
2,4-Dimethyltoluene	DIMETHYLTOLUENE	95807		X	X			0.1	5,000	U207
1,2,4,5-Tetrachlorobenzene	TETRACHLOROBENZENE	95943		X	X	X		1.0	10	U230
2,4,5-Trichlorophenol	TRICHLOROPHENOL-D	95954		X	X	X		1.0	10	U230
Styrene oxide	STYRENEOXIDE	96093		X	X	X		0.1	1+	
1,2-Dibromo-3-chloropropane	DIBROMOCHLORO	96128		X	X	X		0.1	1	U066
DBCP	DBCP	96128		X	X	X		0.1	1	U066
Methyl acrylate	METHYLACRYLATE	96333		X				1.0	100	
Ethylene thiourea	ETHYLENETHIOUREA	96457		X	X	X		0.1	10	U116
C.I. Solvent Yellow 3	CISOLVENTYELLOWA	97563		X				0.1	1	
Ethyl methacrylate	ETHYLMETHACRYLATE	97632		X	X				1,000	U118
Furfural	FURFURAL	98011		X	X	X			5,000	U125
Benzene-sulfonic acid	BENZENESULFONIC ACID	98055	X		X		10/10,000		1	
Benzotic trichloride	BENZOTRICHLORIDE	98077	X	X	X	X	100	0.1	10	U023
Benzotrichloride	BENZOTRICHLORIDE	98077	X	X	X	X	100	0.1	10	U023
Benzene-sulfonyl chloride	BENZENESULFONYL CHLORIDE	98099	X		X	X			100	U020
Trichlorophenylsilane	TRICHLOROPHENYLSILANE	98135	X		X		500		1	

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302/313				EPCRA 302 TQ (H)	Definition Concent. (I)	NO (J)	RCRA CODE (K)
			(D)	(E)	(F)	(G)				
Benzenamine, 3-(trifluoromethyl)- Oumene	BENZENAMINE, 3-(TRIFLUOROMETHYL)- OUMENE	98168	X				500		1	
Acetophenone	ACETOPHENONE	98828		X	X	X		1.0	5,000	U055
Benzal chloride	BENZYLCHLORIDE	98862		X	X	X		1.0	5,000	U064
Benzoyl chloride	BENZYLCHLORIDE	98873	X	X	X	X	500	1.0	5,000	U017
Nitrobenzene	NITROBENZENE	98884		X	X	X		1.0	1,000	
m-Nitrotoluene	NITROTOLUENE-M	98953	X	X	X	X	10,000	1.0	1,000	U169
1,3,5-Trinitrobenzene	TRINITROBENZENE	99081			X	X		1.0	100	U234
5-Nitro-o-toluidine	NITROTOLUIDINE	99354			X	X		1.0	100	U181
m-Nitro-p-anisidine	M-NITROANISIDINE	99568		X	X	X		1.0	100	
p-Nitrobenzene	P-NITROBENZENE	99592		X	X	X		1.0	100	
Dimethyl-p-phenylenediamine	DIMETHYLPHENYLENEDIAMINE	99989	X				10/10,000		1	
p-Nitrotoluene	NITROTOLUENE-P	99990			X				1,000	
p-Nitroaniline	NITROANILINE	100016			X	X			5,000	F077
4-Nitrophenol	NITROPHENOL	100027		X	X	X		1.0	100	U170
p-Nitrophenol	NITROPHENOL	100027		X	X	X		1.0	100	U170
Benzene, 1-(chloromethyl)-4-nitro-	BENZENCHLOROMETHYL-4-NITRO-	100327	X	X	X	X	500/10,000		100	
p-Dinitrobenzene	DINITROBENZENE	100341		X	X	X		1.0	100	
Ethylbenzene	ETHYLENENE	100254		X	X	X		1.0	1,000	
Styrene	ETHYLENENE	100414		X	X	X		1.0	1,000	
Benzyl chloride	STYRENE	100425		X	X	X		0.1	1,000	
Benzonitrile	BENZYLCHLORIDE	100447	X	X	X	X	500	1.0	100	F028
N-Nitrosopiperidine	BENZONITRILE	100470		X	X	X		0.1	5,000	
4,4'-Methylenebis(2-chloroaniline)	NITROSOPIPERIDINE	100754		X	X	X		0.1	10	U179
MECCA	METHYLENEDICHLORO	101144	X	X	X	X		0.1	10	U158
4-Bromophenyl phenyl ether	METHYLENEDICHLORO	101144	X	X	X	X		0.1	10	U158
4,4'-Methylenebis(N,N-dimethyl)benzenamine	MECCA	101144	X	X	X	X		0.1	10	U158
MBI	BROMOPHENYL PHENYL ETHER	101553		X	X	X		0.1	100	U030
Methylenebis(phenylisocyanate)	METHYLENEDIMETH	101611		X	X	X		0.1	100	
4,4'-Diaminodiphenyl ether	MBI	101688		X	X	X		1.0	1*	
Isocyanic acid, 3,4-dichlorophenyl ester	METHYLENEDISPHERYL	101688		X	X	X		1.0	1*	
Bis(2-ethylhexyl) adipate	METHYLENEDIANI	101773		X	X	X		0.1	1*	
p-Anisidine	DIPNODIPHENYL	101804		X	X	X		0.1	1*	
sec-Butyl acetate	ISOCYANIC ACID, 3,4-DICHLOROPHENYL ESTER	102363	X				500/10,000		100	
2,4-Dimethylphenol	BIS(2-ETHYLHEXYL) ADIPATE	102371	X	X				1.0	1*	F093
Benzene, p-dimethyl-	ANISIDINE	104949		X		X		1.0	100	
p-Xylene	SEC-BUTYL ACETATE	104484		X	X	X		1.0	5,000	U101
1,4-Dichlorobenzene	CAPROLACTAM	105602		X	X	X		1*	1*	
p-Chloroaniline	DIMETHYLPHENOL	105679		X	X	X		1.0	100	U239
p-Toluidine	BENZENEDIMETHYL-P	106423		X	X	X		1.0	1,000	U239
p-Phenylenediamine	XYLENE	106445		X	X	X		1.0	1,000	U052
p-Benzoquinone	CRESOL	106445		X	X	X		1.0	1,000	U072
Quinone	DICHLOROBENZENE	106467		X	X	X		0.1	100	U072
1,2-Butylene oxide	CHLORANILINE	106478		X	X	X		1.0	100	F024
Epichlorohydrin	TCALUIDINE	106490		X	X	X		1.0	100	U953
Ethylene dibromide	PHENYLENEDIAMINE	106503		X	X	X		1.0	1*	
Propargyl bromide	BENZOQUINONE	106514		X	X	X		1.0	10	U197
1,3-Butadiene	QUINONE	106514		X	X	X		1.0	10	U197
Acrolein	BUTYLENEOXIDE	106887		X	X	X		1.0	1*	U041
Allyl chloride	EPICHLOROHYDRIN	106898	X	X	X	X	1,000	0.1	100	U067
1,2-Dichloroethane	DIBROMOETHANE	106934		X	X	X		0.1	1	U067
Ethylene dichloride	ETHYLENEDIBROMIDE	106934		X	X	X		0.1	1	U067
Chloroethanol	PROPARGYL BROMIDE	106967	X				10	0.1	1*	
n-Propylamine	BUTADIENE	106990		X	X	X		500	1.0	1
Allylamine	ACROLEIN	107028	X	X	X	X	500	1.0	1	F003
Ethyl cyanide	ALLYLCHLORIDE	107051		X	X	X		1.0	1,000	
Propionitrile	DICHLOROETHANE	107052		X	X	X		0.1	100	U077
Acrylonitrile	ETHYLENEDICHLORIDE	107062		X	X	X		0.1	100	U077
Ethylendiamine	CHLOROETHANOL	107073	X				500		1	
Formaldehyde cyanohydrin	PROPYLAMINE	107108		X	X	X		500	5,000	U194
Allyl alcohol	ALLYLAMINE	107119	X				500		1*	
Chloroacetaldehyde	ETHYLCYANIDE	107120	X	X	X	X		500	10	F101
Ethylene glycol	PROPIONITRILE	107120	X	X	X	X		500	10	F101
Chloromethyl methyl ether	ACRYLONITRILE	107131	X	X	X	X	10,000	0.1	100	U009
Sarin	ETHYLENEDIAMINE	107153	X	X	X	X	10,000		5,000	
TEPP	FORMALDEHYDE CYANOHYDRIN	107164	X				1,000		1*	F005
Tetraethyl pyrophosphate	ALLYL ALCOHOL	107186	X	X	X	X	1,000	1.0	100	F102
Butyric acid	CHLOROACETALDEHYDE	107200		X	X	X		1.0	1,000	F023
Vinyl acetate	ETHYLENGLYCOL	107211		X	X	X		1.0	1*	
Vinyl acetate monomer	CHLOROMETHYL	107302	X	X	X	X		100	0.1	10
	SARIN	107448	X				10		1	U046
	TEPP	107493	X				100		10	F114
	TETRAETHYL PYROPHOSPHATE	107493	X	X	X	X		100	10	F114
	BUTYRIC ACID	107926		X	X	X		1.0	5,000	
	VINYLBACETATE	108054	X	X	X	X	1,000	1.0	5,000	
	VINYL ACETATE MONOMER	108054	X	X	X	X	1,000	1.0	5,000	

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Methyl isobutyl ketone	METHYLISOBUTYLKETO	108101		X	X	X		1.0	5,000	U161
Isopropyl chloroformate	ISOPROPYLCHLOROFORMATE	106236	X				1,000			
Acetic anhydride	ACETIC ANHYDRIDE	106347		X					5,000	
Maleic anhydride	MALEICANHYDRIDE	106316		X	X	X		1.0	5,000	U147
Benzene, m-dimethyl-	BENZENEDIMETHYL-M	106383		X	X	X		1.0	1,000	U239
m-Xylene	XYLENE	106583		X	X	X		1.0	1,000	U239
m-Cresol	CREOSOL	106394		X	X	X		1.0	1,000	U252
Resorcinol	RESORCINOL	108463		X	X	X		5,000		U201
Bis(2-chloro-1-methylethyl)ether	BISCHLOROETHYLETHYL	108601		X	X	X		1.0	1,000	U227
Dichloroisopropyl ether	DICHLOROISOPROPYL ETHER	108501		X	X	X		1.0	1,000	U227
Toluene	TOLUENE	108883		X	X	X		1.0	1,000	U220
Chlorobenzene	CHLOROBENZENE	108907		X	X	X		1.0	100	U237
Cyclohexylamine	CYCLOHEXYLAMINE	108916	X				10,000			
Cyclohexanone	CYCLOHEXANONE	108941		X	X	X		5,000		U257
Phenol	PHENOL	108952	X	X	X	X	500/10,000	1.0	1,000	U188
Benzeneethiol	BENZENEETHIOL	108985		X	X	X		500		F014
Thiofenol	THIOFENOL	106985		X	X	X		500		100
2-Picoline	PICOLINE	109068		X	X	X		1.0	5,000	U191
Propyl chloroformate	PROPYL CHLOROFORMATE	109515	X				500			1,000
Butylamine	BUTYLAMINE	109739		X	X					
Malononitrile	MALONONITRILE	109773	X	X	X	X	500/10,000	1.0	1,000	U149
2-Methoxyethanol	METHOXYETHANOL	109864		X	X			1.0		1,000
Diethylamine	DIETHYLAMINE	109895		X	X					5,000
Furan, tetrahydro-	FURAN, TETRAHYDRO-	109999		X	X	X				1,000
Furan	FURAN	110009	X	X	X	X	500			1,000
Maleic acid	MALEICACID	110167		X	X					5,000
Fumaric acid	FUMARIC ACID	110178		X	X					5,000
iso-Butyl acetate	BUTYLACETATE-I	110190		X	X					5,000
Hexane	HEXANE	110243		X	X					1+
Dibenz-1,4-dichlorobutene	DICHLOROBUTENE	110756	X				500			1+
2-Chloroethyl vinyl ether	CHLOROETHYL VINYL ETHER	110758		X	X	X		1.0	1,000	U242
2-Ethoxyethanol	ETHOXYETHANOL	110805		X	X	X		1.0	1,000	U359
Ethyl 2-ethoxy-	ETHYL 2-ETHOXY-	111444	X	X	X	X	10,000	1.0	10	U225
Cyclohexane	CYCLOHEXANE	110827		X	X	X		1.0	1,000	U256
Pyridine	PYRIDINE	110861		X	X	X		1.0	1,000	U196
Piperidine	PIPERIDINE	110894		X	X		1,000			1+
Diethanolamine	DIETHANOLAMINE	111422	X	X	X			1.0	1+	
Bis(2-chloroethyl) ether	BISCHLOROETHYLEETHER	111444	X	X	X	X	10,000	1.0	10	U225
Dichloroethyl ether	DICHLOROETHYLEETHER	111444	X	X	X	X	10,000	1.0	10	U225
Ethylenebis(dithiocarbamic acid, salts & esters)	ETHYLENEBIS(DITHIOCARBAMIC ACID, SALTS & ESTERS)	111546		X	X	X				5,000
Adiponitrile	ADIPONITRILE	111693	X				1,000			1+
Bis(2-chloroethoxy) methane	BISCHLOROETHOXYMETHANE	111911		X	X	X		1.0	1,000	U224
Propoxur	PROPoxUR	114263		X	X			1.0	1+	
Azaserine	AZASERINE	115026		X	X	X				U215
Propylene (Propene)	PROPYLENE	115071		X				1.0		
Trichloroethylsilane	TRICHLOROETHYLSILANE	115219	X				500			1
Dimefox	DIMEFOX	115264	X				500			1
Endosulfan	ENDOSULFAN	115297	X	X	X	X	10/10,000			F050
Dicofol	DICOFOF	115322	X	X	X	X		1.0	10	
Fensulfothion	FENSULFOTHION	115902	X	X	X	X		500		1
Aldicarb	ALDICARB	116063	X	X	X	X	100/10,000			F070
2-Aminothiazinone	AMINOTHIAZINONE	117793		X	X			0.1		1
Dichloro	DICHLORO	117806		X	X					1
Bis(2-ethylhexyl)phthalate	BISETHYLHEXYLPHthalate	117817		X	X	X		0.1	100	U228
DEHP	DEHP	117817		X	X	X		0.1	100	U228
Di(2-ethylhexyl) phthalate	DIETHYLHEXYPHTH	117817		X	X	X		0.1	100	U228
n-Dioctylphthalate	DIOCTYLPHthalate	117840		X	X	X		1.0	5,000	U107
Hexachlorobenzene	HEXACHLOROBENZENE	118741		X	X	X		0.1	10	U127
Isopropylmethylpyrazolyl dimethylcarbamate	ISOPROPYLMETHYLPYRAZOLYL DIMETHYLCARBAMATE	119380	X				500			1
3,3'-Dimethylbenzidine	DIMETHYLBENZIDI	119904		X	X	X		0.1	100	U291
3,3'-Dimethylbenzidine	DIMETHYLBENZIDI	119937		X	X	X		0.1	10	U295
o-Tolidine	TOLIDINE	119937		X	X	X		0.1	10	U295
Anthracene	ANTHRACENE	120127		X	X	X		1.0	5,000	
Isosafrole	ISOSAFROLE	120581		X	X	X		1.0	100	U141
p-Cresidine	CRESIDINE	120718		X	X			0.1		1+
Catechol	CATECHOL	120829		X	X			1.0		1+
1,2,4-Trichlorobenzene	TRICHLOROBENZE	120821		X	X	X		1.0	100	
2,4-Dichlorophenol	DICHLOROPHENOL	120832		X	X	X		1.0	100	U281
2,4-Dinitrotoluene	DINITROTOLUENE	121142		X	X	X		1.0	10	U125
Pyrethrins	PYRETHRINS	121211		X	X					1
Pyrethrins	PYRETHRINS	121299		X	X					1
Triethylamine	TRIETHYLAMINE	121448		X	X					5,000
N,N-Dimethylaniline	DIMETHYLANILINE	121697		X	X			1.0	1+	
Malathion	MALATHION	121755		X	X					100
Benzeneethanamine, alpha, alpha-dimethyl-	BENZENEETHANAMINE, ALPHALPHA-DIMETHYL-	122098		X	X	X				5,000



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			(D)	(E)	(F)	(G)				
Fenitrothion	FENITROTHION	122145	X				500		1	
1,2-Diphenylhydrazine	DIPHENYLHYDRAZINE	122667	X	X	X	X		0.1	10	U109
Hydrazine, 1,2-diphenyl-	HYDRAZINE, 1,2-DIPHENYL-	122667	X	X	X	X		0.1	10	U109
Hydrazobenzene	HYDRAZOBENZENE	122667	X	X	X	X		0.1	10	U109
Hydroquinone	HYDROQUINONE	123319	X	X	X	X	500/10,000	1.0	1+	
Maleic hydrazide	MALEIC HYDRAZIDE	123331		X	X	X		1.0	5,000	U148
Propionaldehyde	PROPIONALDEHYDE	123396		X	X					
Propionic anhydride	PROPIONIC ANHYDRIDE	123626		X	X				5,000	
Paraldehyde	PARALDEHYDE	123637		X	X	X		1.0	1,000	U182
Butyraldehyde	BUTYRALDEHYDE	123728		X	X			1.0		
Crotonaldehyde, (E)-	CROTONALDEHYDE, (E)-	123739	X	X	X	X	1,000		100	U053
Butyl acetate	BUTYL ACETATE	123864		X	X				5,000	
1,4-Butanediol	BUTANEDIOL	123911		X	X	X		0.1	5,000	U108
iso-Amyl acetate	AMYLACETATE-1	123922		X	X	X			5,000	
Adipic acid	ADIPIC ACID	124049		X	X				5,000	
Dimethylamine	DMETHYLAMINE	124403		X	X	X			1,000	U092
Sodium methylate	SODIUM METHYLATE	124414		X	X	X			1,000	
Chlorodibromomethane	CHLORODIBROMOMETHANE	124481		X	X				100	
Sodium cacodylate	SODIUM CACODYLATE	124652	X				100/10,000		1	
Dibromotetrafluoroethane [Halon 2402]	DIBROMOTETRAFLUOROETHANE	124732		X	X			1.0	1.0	
Halon 2402	HALON2402	124732		X	X			1.0	1.0	
Picrotoxin	PICTOTOXIN	124878	X	X			500/10,000		1	
Tris(2,3-dihydroxypropyl) phosphate	TRIS(2,3-DIHYDROXYPROPYL) PHOSPHATE	125777		X	X	X			5,000	
Methacrylonitrile	METHACRYLONITRILE	126987	X	X	X	X	500	0.1	10	U235
Chloroprene	CHLOROPRENE	126998		X	X	X		1.0	1+	
Perchloroethylene	PERCHLOROETHYLENE	127184		X	X	X		0.1	100	U210
Tetrachloroethylene	TETRACHLOROETHYLENE	127184		X	X	X		0.1	100	U210
Zinc phenolsulfonate	ZINC PHENOLSULFONATE	127822		X	X				5,000	
C.I. Vat Yellow 4	CI-VAT YELLOW 4	128666		X	X			1.0		
Pyrene	PYRENE	129000	X	X	X		1,000/10,000		5,000	
Warfarin sodium	WARFARIN SODIUM	129066	X				100/10,000		1	
2,4-Naphthoquinone	2,4-NAPHTHOQUINONE	130154		X	X	X			5,000	U166
Diethyl phthalate	DIETHYL PHTHALATE	131113		X	X	X		1.0	5,000	U162
Ammonium picrate	AMMONIUM PICRATE	131748		X	X	X			10	FO09
2-Cyclohexyl-4,6-Dinitrophenol	2-CYCLOHEXYL-4,6-DINITROPHENOL	131895		X	X	X			100	FO34
Dibenzofuran	DIBENZOFURAN	132649		X	X			1.0	1+	
Captan	CAPTAN	133062		X	X			1.0	10	
Chloramben	CHLORAMBEN	133904		X	X			1.0	1+	
o-Isididine hydrochloride	O-ISIDIDINE HYDROCHLORIDE	134252		X	X				10	
alpha-Naphthylamine	ALPHA-NAPHTHYLAMINE	134327		X	X	X		0.1	100	U167
Cupferron	CUPFERRON	135206		X	X	X		0.1		
Thiram	THIRAM	137268		X	X	X		1.0	10	U244
Nitrilotriacetic acid	NITRILOTRIACETIC ACID	139139		X	X			0.1		
4,4'-Thiodianiline	THIODIANILINE	139651		X	X				1	
Benzyl cyanide	BENZYL CYANIDE	140294	X				500		1	
Pyridine, 2-methyl-5-vinyl-	PYRIDINE, 2-METHYL-5-VINYL-	140761	X						1	
Ethyl acrylate	ETHYL ACRYLATE	140885		X	X	X		0.1	1,000	U113
Butyl acrylate	BUTYL ACRYLATE	141322		X	X			1.0		
Dicrotophos	DICROTOPHOS	141662	X				100		1	
Ethyl acetate	ETHYL ACETATE	141786		X	X	X			5,000	U112
1,3-Dichloropropane	DICHLOROPROPANE-C	142289		X	X				5,000	
Curic acetate	CURIC ACETATE	142712		X	X				100	
Dipropylamine	DIPROPYLAMINE	142847		X	X	X			5,000	U110
Sodium cyanide (Na(CN))	SODIUM CYANIDE (Na(CN))	143339	X	X	X	X	100		10	FO06
Kerosene	KEROSENE	143500		X	X	X			1	U142
Fluoroacetic acid	FLUOROACETIC ACID	144409	X				10/10,000		1	
Endothall	ENDOTHALL	145733		X	X	X			1,000	FO88
Melphalan	MELPHALAN	148823		X	X	X			1	U150
Dichloromethylphenylsilane	DICHLOROMETHYLPHENYLSILANE	149746	X				1,000		1	
Methoxyethylmercuric acetate	METHOXYETHYL MERCURIC ACETATE	151382	X				500/10,000		1	
Potassium cyanide	POTASSIUM CYANIDE	151508	X	X	X	X	100		10	FO98
Acridine	ACRIDINE	151554	X	X	X	X	500	0.1	1	FO54
Ethyleneimine	ETHYLENEIMINE	151564	X	X	X	X	500	0.1	1	FO54
Diphosphoramide, octamethyl-	DIPHOSPHORAMIDE, OCTAMETHYL-	152169	X	X	X	X	100		100	FO85
1-Nitrosodiphenylamine	NITROSODIPHENYLAMINE	156105		X	X	X		0.1		
1,2-Dichloroethylene	DICHLOROETHYLENE	156605		X	X	X			1.0	U079
Calcium cyanamide	CALCIUM CYANAMIDE	156627		X	X	X			1+	
Dibenz[a,h]pyrene	DIBENZOPYRENE	169559		X	X	X			10	U064
Benzo[ghi]perylene	BENZOPERYLENE	191242		X	X	X			5,000	
Indeno(1,2,3-cd)pyrene	INDENO(1,2,3-CD)PYRENE	193395		X	X	X			100	U137
Benzo[b]fluoranthene	BENZOFLUORANTHENE	206992		X	X	X			1	
Fluoranthene	FLUORANTHENE	206640		X	X	X			100	U120
Benzo[k]fluoranthene	BENZOFLUORANTHENE	207009		X	X	X			5,000	
Acenaphthylene	ACENAPHTHYLENE	208968		X	X	X			5,000	
Chrysene	CHRYSENE	218019		X	X	X			100	U050
Benz[c]acridine	BENZACRIDINE	225534		X	X	X			100	U016

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			302 (D)	313 (E)	CERCLA (F)	RCRA (G)					
Isobenzan	ISOBENZAN	297789	X				100/10,000		1		
O,O-Diethyl O-pyrazinyl phosphorothioate	DIETHYL PYRAZINYL PHOSPHOROTHIOATE	297972	X		X	X	500		100	P040	
Thioarazin	THIOARAZIN	297972	X		X	X	500		100	P040	
Methyl parathion	METHYL PARATHION	298000	X		X	X	100/10,000		100	P071	
Parathion-methyl	PARATHION-METHYL	298000	X		X	X	100/10,000		100	P071	
Phorate	PHORATE	298022	X		X	X	10		10	P094	
Disulfoton	DISULFOTON	298044	X		X	X	500		10	P039	
Amphetamine	AMPHETAMINE	300629	X				1,000		1		
Naled	NALED	300765			X				10		
Lead acetate	LEAD ACETATE	301042			X				5,000	U144	
Hydrazine	HYDRAZINE	302012	X	X	X	X	1,000	0.1	1	U133	
Lasiocarpine	LASIOCARPINE	303344			X	X			10	U143	
Chlorobutyl	CHLOROBUTYL	305635			X	X			10	U035	
2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123)	HCFC-123	306832		X				1.0			
HCFC-123	HCFC-123	306832		X				1.0			
Aldrin	ALDRIN	309007	X	X	X	X	500/10,000	1.0	1	P004	
Diethyl-p-nitrophenyl phosphate	DIETHYL P-NITROPHENYL PHOSPHATE	311455			X	X			100	P041	
Mezocarbate	MEZOCARBATE	315184	X		X		500/10,000		1,000		
Emetine, dihydrochloride	EMETINE, DIHYDROCHLORIDE	316427	X		X		1/1,000		10		
alpha-BHC	BHC	319846			X				1		
beta-BHC	BHC	319857			X				1		
delta-BHC	BHC	319868			X				1		
Trichloronate	TRICHLORONATE	327990	X				500		1		
2,5-Dinitrophenol	DINITROPHENOL	329715			X				10		
Diazin	DIAZIN	330541			X				100		
Diazinon	DIAZINON	333415			X				1		
Diazomethane	DIAZOMETHANE	334883		X	X			1.0	1+		
Boron trifluoride compound with methyl ether (1:1)	BORON TRIFLUORIDE COMPOUND WITH METHYL ETHER (1:1)	353424	X				1,000		1		
Carbonic difluoride	CARBONIC DIFLUORIDE	353504			X	X			1,000	U033	
Bromo-chlorodifluoromethane [Halon 1211]	BROMOCHLORODIFLUOROMETHANE	353593			X			1.0			
Halon 1211	HALON 1211	353593			X			1.0			
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	HCFC-123a	354234			X			1.0			
HCFC-123a	HCFC-123a	354234			X			1.0			
1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	HCFC-124a	354256			X			1.0			
HCFC-124a	HCFC-124a	354256			X			1.0			
Bruceine	BRUCEINE	357573			X	X			100	P018	
Fluoroacetyl chloride	FLUOROACETYL CHLORIDE	359068	X				10		1		
Ethylene fluorohydrin	ETHYLENEFLUOROHYDRIN	371620	X				10		100		
Ergotamine tartrate	ERGOTAMINE TARTRATE	379793	X				500/10,000		1		
Cyanogen	CYANOGEN	462056			X	X			100	P031	
Carbonyl sulfide	CARBONYLSULFIDE	463581			X	X		1.0	1+		
Isodrin	ISODRIN	465736	X		X	X	100/10,000		1	P060	
Chlorferwinfos	CHLORFERWINFOS	470906	X				500		1		
Auramine	AURAMINE	492808			X	X		0.1	100	U014	
C. I. Solvent Yellow 34	CISOLVENTYELLOW 34	492808			X	X		0.1	100	U014	
Chlorazepine	CHLORAZEPINE	494031			X	X			100	U025	
Diaminotoluene	DIAMINOTOLUENE	496720			X	X			10	U221	
Methylmercuric dicyanamide	METHYLMERCURIC DICYANAMIDE	502396	X				500/10,000		1		
4-Piropyrindine	PIROPYRIDINE	504345	X		X	X	500/10,000		1,000	P008	
Pyridine, 4-amino-	PYRIDINE, 4-AMINO-	504345	X		X	X	500/10,000		1,000	P008	
1,3-Pentadiene	PENTADIENE	504609			X	X			100	U186	
Mustard gas	MUSTARD GAS	505602	X	X			500	0.1	1		
Potassium silver cyanide	POTASSIUM SILVER CYANIDE	506649			X	X		500	1	P099	
Silver cyanide	SILVER CYANIDE	506649			X	X		500	1	P104	
Cyanogen bromide	CYANOGEN BROMIDE	506683	X		X	X	500/10,000		1,000	U246	
Cyanogen chloride	CYANOGEN CHLORIDE	506674	X		X	X			10	P033	
Cyanogen iodide	CYANOGEN IODIDE	506785	X				1,000/10,000		1		
Ammonium carbonate	AMMONIUM CARBONATE	506876			X				5,000		
Acetyl bromide	ACETYL BROMIDE	506967			X				5,000		
Tetrahydrofuran	TETRAHYDROFURAN	509148	X		X	X	500		10	P112	
Chlorobenzilate	CHLOROBENZILATE	510156			X	X		1.0	100	U038	
sec-Butylamine	BUTYLAMINE-S	513495			X				1		
Dithiazine iodide	DITHIAZINE IODIDE	514736	X				500/10,000		1		
o-Nitrobenzene	DINITROBENZENE	528290			X	X		1.0	100		
2-Chloroacetophenone	CHLOROACETOPHENONE	532274			X	X		1.0	1+		
Bis(chloromethyl) ketone	BISCHLOROMETHYL KETONE	534076	X				10/10,000		1		
4,6-Dinitro-o-cresol	DINITROCRESOL	534521	X	X	X	X	10/10,000		1.0	10	
4,6-Dinitro-o-cresol and salts	DINITROCRESOL AND SALTS	534521	X	X	X	X	10/10,000		1.0	10	
Dinitrocresol	DINITROCRESOL	534521	X	X	X	X	10/10,000		1.0	10	
Crimidine	CRIMIDINE	535897	X				100/10,000		1		
Ethylbis(2-chloroethyl)amine	ETHYLBIS(2-CHLOROETHYL)AMINE	538078	X				500		1		
1,2-Dichloroethylene	DICHLOROETHYLENE	540590			X	X		1.0	1	U099	
Hydrazine, 1,2-dimethyl-	HYDRAZINE, 1,2-DIMETHYL-	540738			X	X			1+		
2,2,4-Trimethylpentane	TRIMETHYLPENTANE	540641			X				1+		
tert-Butyl acetate	BUTYLACETATE-T	540885			X				5,000		
Uranyl acetate	URANYL ACETATE	541093			X				100		

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			302 (D)	313 (E)						
Lewisite	LEWISITE	541253	X				10	1.0	1	
Ethyl chloroformate	ETHYLCHLOROFORMATE	541413		X						
Dithioburet	DITHIOBURET	541537	X	X	X	X	100/10,000	1.0	100	F049
1,3-Dichlorobenzene	DICHLOROBENZENE	541731		X	X	X		1.0	100	U071
Barium cyanide	BARUM CYANIDE	542021		X	X	X			10	F033
1,3-Dichloropropene	DICHLOROPROPENE	542756		X	X	X		0.1	100	U084
1,3-Dichloropropylene	DICHLOROPROPYLEN	542756		X	X	X		0.1	100	U084
3-Chloropropionitrile	CHLOROPROPIONITRILE	542765	X	X	X	X	1,000		1,000	F027
Propionitrile, 3-chloro-	PROPIONITRILE, 3-CHLORO-	542767	X	X	X	X	1,000		1,000	F027
Bis(chloromethyl) ether	BISCHLOROMETHYLETHER	542851	X	X	X	X	100	0.1	10	F016
Chloromethyl ether	CHLOROMETHYL ETHER	542851	X	X	X	X	100	0.1	10	F016
Dichloromethyl ether	DICHLOROMETHYL ETHER	542851	X	X	X	X	100	0.1	10	F016
Ethylthiocyanate	ETHYLTHIOCYANATE	542905	X				10,000		1	
Cadmium acetate	CADMIUM ACETATE	543908			X				10	
Cobaltous formate	COBALTOUS FORMATE	544193			X				1,000	
Copper cyanide	COPPER CYANIDE	544923			X	X			10	F029
m-Nitrophenol	NITROPHENOL-M	554847			X				100	
Tris(2-chloroethyl)amine	TRIS(2-CHLOROETHYL)AMINE	555771	X				100		1	
Methyl isothiocyanate	METHYLISOTHIOCYANATE	555616	X				500		10	
Methyl thiocyanate	METHYLTHIOCYANATE	555649	X				10,000		10	
Nickel cyanide	NICKELCYANIDE	557197			X	X			10	F074
Zinc cyanide	ZINC CYANIDE	557211			X	X			10	F121
Zinc acetate	ZINC ACETATE	557346			X				1,000	
Zinc formate	ZINC FORMATE	557415			X				1,000	
Hexafluoroantimonyl fluoride	HEXAFLUOROANTIMONYL FLUORIDE	558553	X				1,000		10	
Ethion	ETHION	563122	X		X		1,000		10	
Semicarbazide hydrochloride	SEMICARBAZIDE HYDROCHLORIDE	563417	X				1,000/10,000		10	
Thallium(I) acetate	THALLIUM ACETATE	563688			X				100	U214
C.I. Basic Green 4	CIBASICGREEN4	569842		X	X	X		1.0	100	
2,6-Dinitrophenol	DINITROPHENOL	573568		X	X				10	
Toluene, 2,4-dithiocyanate	TOLUENE 2,4-DITHIOCYANATE	584869	X	X	X	X	500	0.1	100	
n-Propyl-2-thiourea	PROPYL 2-THIOUREA	591082			X	X			1,000	F002
Calcium cyanide	CALCIUMCYANIDE	592018			X	X			10	F021
Mercuric cyanide	MERCURIOCYANIDE	592041			X				10	
Mercuric thiocyanate	MERCURITHIOCYANATE	592858			X				100	
Lead thiocyanate	LEADTHIOCYANATE	592870			X				100	
Vinyl bromide	VINYLBROMIDE	593602		X	X			0.1	1*	
Perchloromethylmercaptan	PERCHLOROMETHYL MERCAPTAN	594423	X		X		500		100	
Trichloromethanesulfenyl chloride	TRICHLOROMETHANESULFENYL CHLORIDE	594423	X		X		500		100	
Tetraethyltin	TETRAETHYL TIN	597648	X				100		10	
Bromoacetone	BROMOACETONE	598312			X	X			1,000	F017
2,6-Dinitrotoluene	DINITROTOLUENE	606202	X		X			1.0	100	U106
Pentachlorobenzene	PENTACHLOROBENZENE	608935			X	X			10	U183
3,4,5-Trichlorophenol	TRICHLOROPHENOL-F	609198			X				10	
2,4-Dinitrotoluene	DINITROTOLUENE	610399			X				10	
Thiourea, (2-methylphenyl)-	THIOUREA, (2-METHYLPHENYL)-	614788	X				500/10,000		1	
2,4-Diaminonitrobenzene	DIAMINONITROBENZENE	615054		X	X	X		0.1	1	U178
N-Nitrosodimethylurethane	NITROSODIMETHYLURETHANE	615532			X	X			10	U111
Di-n-propylnitrosamine	PROPYLNITROSAMINE	621647		X	X	X		0.1	10	U111
N-Nitrosodi-n-propylamine	NITROSODIPROPYL AMINE	621647		X	X	X		0.1	10	U111
Methyl isocyanate	METHYLISOCYANATE	624839	X	X	X	X	500	1.0	1	F064
tert-Amyl acetate	AMYLACETATE-T	625161			X				5,000	
sec-Amyl acetate	AMYLACETATE-S	626390			X				5,000	
Chloroethyl chloroformate	CHLOROETHYL CHLOROFORMATE	627112	X				1,000		5,000	
Amyl acetate	AMYLACETATE	628637			X				5,000	F065
Mercury fulminate	MERCURY FULMINATE	628864			X	X			10	F036
Selenourea	SELENOUREA	630104			X	X			1,000	F103
Ethene, 1,1,1,2-tetrachloro-	ETHENETETRACHLORO-	630206		X	X	X		1.0	100	U208
Quabain	QUABAIN	630604	X				100/10,000		1	
Ammonium acetate	AMMONIUMACETATE	631618			X				5,000	
o-Toluidine hydrochloride	ORTHO-TOLUIDINE HYDROCHLORIDE	636715		X	X	X		0.1	100	U222
Triphenyltin chloride	TRIPHENYL TIN CHLORIDE	639587	X				500/10,000		1	
Fluoroacetamide	FLUOROACETAMIDE	640197	X		X	X	100/10,000		100	F057
Dimethyltin	DIMETHTIN	644644	X				500/10,000		1	
Cyanuric fluoride	CYANURIC FLUORIDE	675149	X				100		1	
Methyl phosphonic dichloride	METHYLPHOSPHONIC DICHLORIDE	676971	X				100		1	
Hexamethylphosphoramide	HEXAMETHYLPHOSPHORAMIDE	680319		X	X			0.1	1*	
N-Nitrosodimethylurea	NITROSODIMETHYLUREA	684935		X	X	X		0.1	1	U177
Diethylarsine	DIETHYLARSINE	692422			X	X			1	F038
Dichlorophenylarsine	DICHLOROPHENYLARSINE	696286	X		X	X	500		1	F036
Phenyl dichloroarsine	PHENYL DICHLOROARSINE	696286	X		X	X	500		1	F036
Phosnet	PHOSNET	732116	X				10/10,000		1	
Hexamethyl tetraphosphate	HEXAMETHYL TETRAPHOSPHATE	757584		X	X	X			100	F062
N-Nitrosodimethylurea	NITROSODIMETHYLUREA	757759		X	X	X		0.1	1	U176
Methacrylic anhydride	METHACRYLIC ANHYDRIDE	760950	X				500		1	
2-Butene, 1,4-dichloro-	BUTENEDICHLORO-	764410	X	X	X	X		1.0	1	U074

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			(D)	(E)	(F)	(G)				
Glycidylaldehyde	GLYCIDYLALDEHYDE	765344			X	X			10	U126
Carbophenothion	CARBOPHENOTHION	786196	X				500	1.0	1	
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	HCFC-123b	812044		X				1.0	1	
Diethyl chlorophosphate	DIETHYLCHLOROPHOSPHATE	814493	X				500		1	
Acrylyl chloride	ACRYLYL CHLORIDE	814586	X				100		1	
Cupric tartrate	CUPRIC TARTRATE	815827			X				100	
Hexamethylene-1,6-diisocyanate	HEXAMETHYLENE	822060			X				1+	
Diaminotoluene	DIAMINOTOLUENE	823405			X				50	
Trimehylolpropane phosphite	TRIMETHYLOLPROPANE PHOSPHITE	824113	X		X	X	100/10,000		10	U221
C.I. Solvent Yellow 14	CISELVENTYELLOW	842073		X				0.1	1	
Stannane, acetyltriphenyl-	STANNANE, ACETYLTRIPHENYL-	900598	X				500/10,000		1	
Dimethylolurea	DIMETHYLOUREA	919868	X				500		1	
Methacryloyl chloride	METHACRYLOYL CHLORIDE	920467	X				100		1	
N-Nitrosodl-n-butylamine	NITROSODIBUTYLAMINE	924163		X	X	X		0.1	10	U172
N-Nitrosopyrrolidine	NITROSOPYRROLIDINE	935522			X	X			1	U180
2,3,6-Trichlorophenol	TRICHLOROPHENOL-C	933755			X				10	
2,3,5-Trichlorophenol	TRICHLOROPHENOL-B	933788			X				10	
Terfenadine	TERFENADINE	944229	X				500		1	
Phosfolan	PHOSFOLAN	947024	X				100/10,000		1	
Mephosfolan	MEPHOSFOLAN	950107	X				500		1	
Methidathion	METHIDATHION	950378	X				500/10,000		1	
alpha - Endosulfan	ENDOSULFAN	959988			X				1	
Tetrachlorvinphos	TETRACHLORVINPHOS	961115		X				1.0	1	
C.I. Basic Red 1	CIBASIDRED	969288	X					0.1	1	
Norboride	NORBORIDE	981424	X				100/10,000		1	
Triethoxysilane	TRIETHOXYSILANE	998301	X				500		1	
Chloroacet chloride	CHLOROACETYL CHLORIDE	998815	X				100/10,000		1	
Heptachlor epoxide	HEPTACHLOR EPOXIDE	1024573		X	X				1	
Endosulfan sulfate	ENDOSULFAN SULFATE	1031078			X				1	
Triamphos	TRIAMPHOS	1031476	X				500/10,000		1	
Chronic acetate	CHRONIC ACETATE	1072351		X					5,000	
Ammonium bicarbonate	AMMONIUMBICARBONATE	1066337		X					5,000	
Trimethyltin chloride	TRIMETHYLTIN CHLORIDE	1066451	X				500/10,000		1	
Lead stearate	LEADSTEARATE	1172351		X					5,000	
Ammonium carbonate	AMMONIUMCARBONATE	1111780		X					5,000	
N-Nitrosodiethecaniline	NITROSODIETHANILAMINE	1116547		X	X	X		0.1	10	U173
1,3-Propene sulfone	PROPANE SULFONE	1120714		X	X	X		0.1	10	U193
Propane sulfone	PROPANESULFONE	1120714		X	X	X		0.1	10	U193
Nitrocyclohexane	NITROCYCLOHEXANE	1122607	X				500		1	
Pyridine, 4-nitro-, 1-oxide	FRIDIMETHYLOXIDE	1124330	X				500/10,000		1	
Metolcarb	METOLCARB	113415	X				100/10,000		1	
Decabromodiphenyl oxide	DECABROMODIPHENYLOXIDE	1163195		X				1.0	1	
Ferric ammonium citrate	FERRICAMMONIUMCITRATE	1163575		X					1,000	
Dichlorobenzil	DICHLOROBENZIL	1194666		X					100	
Xylenol	XYLENOL	1300716		X					1,000	
Arsenic pentoxide	ARSENIC PENTOXIDE	1303282	X		X	X	100/10,000		1	F011
Arsenic disulfide	ARSENIC DISULFIDE	1303328		X					1	
Arsenic trisulfide	ARSENIC TRISULFIDE	1303339		X					1	
Cadmium oxide	CADMIUM OXIDE	1306190	X				100/10,000		1	
Antimony trioxide	ANTIMONYTRIOXIDE	1309544		X					1,000	
Potassium hydroxide	POTASSIUMHYDROXIDE	1310583		X					1,000	
Sodium hydroxide	SODIUM HYDROXIDE	1310732		X					1,000	
Nolybdenum trioxide	NOLYBDENUMTRIOXIDE	1313275		X				1.0	1	
Thorium dioxide	THORIUMDIOXIDE	1314201		X				1.0	1	
Thallic oxide	THALLIC OXIDE	1314325		X	X	X			100	F113
Phosphorus pentoxide	PHOSPHORUS PENTOXIDE	1314563	X		X	X	10		1	
Vanadium pentoxide	VANADIUM PENTOXIDE	1314621	X		X	X	100/10,000		100	F120
Sulfur phosphide	SULFURPHOSPHIDE	1314803		X	X	X			100	U189
Zinc phosphide	ZINCPHOSPHIDE	1314847	X	X	X	X	500		100	F122
Zinc phosphide (conc. <= 10%)	ZINCPHOSPHIDE	1314847	X	X	X	X	500		100	U249
Zinc phosphide (conc. > 10%)	ZINCPHOSPHIDE	1314847	X	X	X	X	500		100	F122
Lead sulfide	LEADSULFIDE	1314870		X	X	X			5,000	
2,4,6-T amine	T AMINES	1319725		X					5,000	
Cresol (mixed isomers)	CRESOLMEDIISOMER	1319773		X	X	X		1.0	1,000	U052
2,4-D Esters	D ESTERS	1320189		X					100	
Nitrotoluene	NITROTOLUENE	1321126		X					1,000	
Arsenic acid	ARSENIC ACID	1327522		X	X	X			1	F010
Arsenic trioxide	ARSENIC TRIOXIDE	1327533	X	X	X	X	100/10,000		1	F012
Arsenous oxide	ARSENIOUS OXIDE	1327533	X	X	X	X	100/10,000		1	F012
Xylene (mixed isomers)	XYLENMEDIISOMER	1330207		X	X	X		1.0	1,000	U239
Zinc borate	ZINCBORATE	1332076		X	X	X			1,000	
Asbestos (friable)	ASBESTOS	1332214		X	X	X		0.1	1	
Sodium bifluoride	SODIUM BIFLUORIDE	1338331		X					100	
Lead subacetate	LEADSUBACETATE	1338326		X	X	X			100	U146
Hexachloronaphthalene	HEXACHLORONAPHTHALENE	1338871		X	X	X		1.0	100	

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302			EPCRA 313			DEFINITION CONCENT. (I)	RQ (J)	CERCLA CODE (K)
			(D)	(E)	(F)	(G)	(H)	(I)			
Ammonium hydroxide	AMMONIUMHYDROXIDE	1336216		X					1,000		
PCBs	PCBS	1336363		X	X			0.1	1		
Polychlorinated biphenyls	POLYCHLORINATEDBIPH	1336363		X	X			0.1	1		
Methyl ethyl ketone peroxide	METHYLETHYLKETONEPEROXIDE	1338234		X	X	X			10	U160	
Naphthenic acid	NAPHTHENIC ACID	1338245		X	X				100		
Ammonium bifluoride	AMMONIUMBIFLUORIDE	1344197		X	X				100		
Aluminum oxide (fibrous forms)	ALUMINUMOXIDE	1344281		X	X			0.1	1		
Antimycin A	ANTIMYCIN A	1397940	X				1,000/10,000		1		
Dioxin	DIOXIN	1420071	X				500/10,000		1		
2,2'-Bioxirane	BIOXIRANE	1464535	X	X	X	X		500	0.1	10	
Dipropylbutane	DIPROPYBUTANE	1464535	X	X	X	X		500	0.1	10	
Trichloro(chloromethyl)silane	TRICHLOROCHLOROMETHYL-SILANE	1558254	X						100		
Carbofuran	CARBOFURAN	1563662	X	X	X		10/10,000		10		
Trifluralin	TRIFLURALIN	1582098	X	X	X				1.0	1+	
Mercuric acetate	MERCURIOACETATE	1600277	X				500/10,000		1		
Hydrazine, 1,2-diethyl-	HYDRAZINEDIETHYL-	1619500	X	X	X				10	U086	
Ethanesulfonyl chloride, 2-chloro-	ETHANESULFONYL CHLORIDE, 2-CHLORO-	1622328	X				500		1		
Methyl tert-butyl ether	METHYLTERTBUTYLE	1634044		X	X				1.0	1+	
Diethylcitronelline citrate	DIETHYLCITRONELLINE CITRATE	1642542	X	X	X		100/10,000		1		
1,1-Dichloro-1-fluoroethane (HCFC-141b)	HCFC-141b	1717006	X						1.0	1	
HCFC-141b	HCFC-141b	1717006	X						1.0	1	
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	TETRACHLORODIBENZO-P-DIOXIN (TCDD)	1746016	X	X					1		
Acetone thiosemicarbazide	ACETONE THIOSEMICARBAZIDE	1752303	X				1,000/10,000		1		
Ammonium thiocyanate	AMMONIUMTHIOCYANATE	1762554		X	X				5,000		
Nitrofen	NITROFEN	1836785		X	X				0.1	5,000	
Ammonium benzoate	AMMONIUMBENZOATE	1863634		X	X				5,000		
Hexachloropropene	HEXACHLOROPROPENE	1888717		X	X	X			1,000	U243	
Chlorothalonil	CHLOROTHALONIL	1897489	X	X	X				1.0	1	
Paraquat	PARAQUAT	1910426	X	X	X		10/10,000		1		
Dicamba	DICAMBA	1918009		X	X				1,000		
2,4-D Esters	D ESTERS	1928476		X	X				1,000		
2,4,5-T esters	T ESTERS	1928476		X	X				1,000		
2,4-D Esters	D ESTERS	1928616		X	X				100		
2,4-D Esters	D ESTERS	1929733		X	X				100		
C.I. Direct Black 38	CIDIRECTBLACK38	1937377		X	X				0.1	100	
Chloroxuron	CHLOROXURON	1962474	X				500/10,000		1		
Valinomycin	VALINOMYCIN	2001958	X				1,000/10,000		1		
2,4,5-T amines	T AMINES	2008460		X	X				5,000		
Mercaptodimethur	MERCAPTODIMETHUR	2032657	X	X	X		500/10,000		10		
Methiocarb	METHIOCARB	2032657	X	X	X		500/10,000		10		
Paraquat methosulfate	PARAQUAT METHOSULFATE	2074502	X				10/10,000		1		
Phenylsilatrane	PHENYLSILATRANE	2097190	X				100/10,000		1		
EPN	EPN	2104645	X				100/10,000		1		
Filmeturon	FILMETURON	2164172	X	X					1.0	1	
Cadmium stearate	CADMIUM STEARATE	2223930	X				1,000/10,000		1		
Thiocarbazide	THIOCARBAZIDE	2231574	X	X			1,000/10,000		1		
Octachloronaphthalene	OCTACHLORONAPHTHALEN	2234331		X	X				1.0	1	
Diglycidyl ether	DIGLYCIDYL ETHER	2238075	X				1,000		1		
Prothoate	PROTHOATE	2275185	X	X	X		100/10,000		1		
Diallate	DIALLATE	2303164		X	X	X			1.0	100	
Propargite	PROPARGITE	2312358		X	X				10	U062	
Oxydisulfoton	OXYDISULFOTON	2497076	X				500		1		
Dimethyl phosphorochloridothioate	DIMETHYLPHOSPHOROCHLORIDOTHIOATE	2524030	X				500		1		
Formothion	FORMOTHION	2540821	X				100		1		
2,4,5-T esters	T ESTERS	2545597		X	X				1,000		
Pentachloramine	PENTACHLORAMINE	2570265	X				100/10,000		1		
Phosphorothioic acid, O,O-dimethyl-S-(2-(methylthio)ethyl)es	PHOSPHOROTHIOIC ACID, O,O-DIMETHYL-S-(2-(METHYLTHIO	2575265	X				500		1		
C.I. Direct Blue 6	CIDIRECTBLUE6	2602462	X	X					0.1	1	
Prohexarb	PROHEXARB	2631370	X				500/10,000		1		
Cyanoxes	CYANOXES	2636262	X				1,000		1		
Azinphos-ethyl	AZINPHOS-ETHYL	2642719	X				100/10,000		1		
Phosphorothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl es	PHOSPHOROTHIOIC ACID, METHYL-, O-(4-NITROPHENYL) O-	2665307	X				500		1		
Phosphorothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl) es	PHOSPHOROTHIOIC ACID, METHYL-, O-ETHYL O-(4-(METHY	2703331	X				500		1		
Thallos malonate	THALLOS MALONATE	2769464	X	X	X		100/10,000		1,000		
5-(Aminomethyl)-3-isoxazolol	ISOXAZOLOL	2769464	X	X	X		500/10,000		1,000	PO07	
Muscicol	MUSCICOL	2769464	X	X	X		500/10,000		1,000	PO07	
Diquat	DIQUAT	2764729		X	X				1,000		
Endothion	ENDOTHION	2778043	X				500/10,000		1		
C.I. Disperse Yellow 3	CIDISPERSEYELLOW	2832408	X	X					1.0	1	
2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	HCFC-124	2837890		X	X				1.0	1	
HCFC-124	HCFC-124	2837890		X	X				1.0	1	
Chlorpyrifos	CHLORPYRIFOS	2921862		X	X				1		
Ferric ammonium oxalate	FERRICAMMONIUMOXALATE	2944674		X	X				1,000		
2,4-D Esters	D ESTERS	2971382		X	X				100		
Ammonium citrate dibasic	AMMONIUMCITRATE, DIBASIC	3012655		X	X				5,000		
Silane, (4-aminobutyl)diethoxymethyl-	SILANE, (4-AMINOBTYL)DIETHOXYMETHYL-	3037777	X				1,000		1		

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C.I. Solvent Orange 7	CISOLENTORANGE	3118976		X				1.0		
Ammonium tartrate	AMMONIUMTARTRATE	3164292		X					5,000	
4-Chloro-o-toluidine, hydrochloride	CHLORO-TOLUIDINE, HYDROCHLORIDE	3165933		X	X				100	U049
Cupric nitrate	CUPRIC NITRATE	3251238		X					100	
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	PHOSPHORIC ACID, DIMETHYL 4-(METHYLTHIO) PHENYL ES	3254658	X				500			
O,O-Diethyl S-methyl dithiophosphate	DITHIOPHOSPHATE	3288582		X	X				5,000	U087
Zinc carbonate	ZINC CARBONATE	3486359		X					1,000	
DEE	DEE	3547044		X					1	
Sulfoxide, 3-chloropropyl octyl	SULFOXIDE, 3-CHLOROPROPYL OCTYL	3569571	X				500		1	
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	BENZIMIDAZOLE, 4,5-DICHLORO-2-(TRIFLUOROMETHYL)-	3615212	X		X	X	500/10,000		100	P109
Sulfotep	SULFOTEP	3689245	X				500		1	
Tetraethylthiopyrophosphate	TETRAETHYLTHIOPYROPHOSPHATE	3689245	X		X	X	500		100	P109
Chlorophacinone	CHLOROPHACINONE	3691358	X				100/10,000		1	
Amiton oxalate	AMITON OXALATE	3734972	X				100/10,000		1	
Methyl phenkapton	METHYLPHENKAPTON	3735237	X				500		1	
C.I. Food Red 5	CICOFREDO5	3761533		X				0.1		
2,4,5-T amides	T AMIDES	3813147			X				5,000	
Fuberidazole	FUBERIDAZOLE	3878191	X				100/10,000		1	
Bitoscanate	BITOSCANATE	4044659	X				500/10,000		1	
Isophorone diisocyanate	ISOPHORONE DIISOCYANATE	4098719	X				100		1	
Phosacetin	PHOSACETIN	4104147	X				100/10,000		1	
Crotonaldehyde	CROTONALDEHYDE	4170303	X		X	X	1,000		100	U053
Flumetnil	FLUMETNIL	4301502	X				100/10,000		1	
Phenyl 2,2'-thiobis[4-chloro-6-methyl-N-nitrosodimethylamine	PHENYLTHIOBIS[4-CHLORO-6-METHYL-N-NITROSODIMETHYLAMINE	4418646	X		X	X	100/10,000		1	
C.I. Acid Green 3	CICIDGREEN3	4549400		X	X	X		0.1	10	P084
Hexamethylenediamine, N,N'-dibutylthiourea, (2-chlorophenyl)-	HEXAMETHYLENEDIAMINE, N,N'-DIBUTYLTHIOUREA, (2-CHLOROPHENYL)-	4660788					500	1.0		
Coumatetralyl	COUMATETRALYL	4834514	X		X	X	100/10,000		100	P026
Cupric oxalate	CUPRIC OXALATE	5836293	X				500/10,000		1	
Ammonium oxalate	AMMONIUMOXALATE	5972736		X					5,000	
Ammonium oxalate	AMMONIUMOXALATE	6009707		X					5,000	
2,4,5-T amides	T AMIDES	6369966		X					5,000	
2,4,5-T amides	T AMIDES	6369977		X					5,000	
Ammonium nitrate (solution)	AMMONIUMNITRATE	6484522		X				1.0		
Thallium(I) carbonate	THALLIUMCARBONATE	6533739	X		X	X	100/10,000		100	U215
Thalious carbonate	THALIOUS CARBONATE	6533739	X		X	X	100/10,000		100	U215
Monocrotophos	MONOCROTOPHOS	6923224	X				10/10,000		1	
4-Chlorophenyl phenyl ether	CHLOROPHENYL PHENYL ETHER	7005723		X					5,000	
Enurin aldehyde	ENURIN ALDEHYDE	7418194		X					1	
Lead stearate	LEADSTEARATE	7428480		X					5,000	
Aluminum (fume or dust)	ALUMINUM	7429905		X	X			1.0		
Lead	LEAD	7439921		X	X			0.1	1*	
Manganese	MANGANESE	7439965		X	X			1.0		
Mercury	MERCURY	7439976		X	X	X		1.0	1	U151
Nickel	NICKEL	7440080		X	X			0.1	100*	
Silver	SILVER	7440224		X	X			1.0	1,000*	
Sodium	SODIUM	7440235		X	X				10	
Thallium	THALLIUM	7440280		X	X			1.0	1,000*	
Antimony	ANTIMONY	7440360		X	X			1.0	5,000*	
Arsenic	ARSENIC	7440382		X	X			0.1	1*	
Barium	BARIUM	7440393		X	X			1.0		
Beryllium	BERYLLIUM	7440417		X	X	X		0.1	10*	P015
Cadmium	CADMIUM	7440439		X	X			0.1	10*	
Chromium	CHROMIUM	7440473		X	X			0.1	5,000*	
Cobalt	COBALT	7440484		X	X			1.0		
Copper	COPPER	7440508		X	X			1.0	5,000*	
Vanadium (fume or dust)	VANADIUM	7440622		X	X			1.0		
Zinc	ZINC	7440666		X	X			1.0	1,000*	
Zinc (fume or dust)	ZINC	7440666		X	X			1.0	1,000*	
Selenium dioxide	SELENIUMDIOXIDE	7446094		X	X				10	
Sulfur dioxide	SULFURDIOXIDE	7446095	X				500		1	
Sulfur trioxide	SULFURTRIOXIDE	7446119	X				100		1	
Lead sulfate	LEADSULFATE	7446142		X	X				100	
Thallium(I) sulfate	THALLIUMSULFATE	7446186	X		X	X	100/10,000		100	P115
Thalious sulfate	THALIOUS SULFATE	7446186	X		X	X	100/10,000		100	P115
Lead phosphate	LEADPHOSPHATE	7446277		X	X				1	U145
Cupric chloride	CUPRIC CHLORIDE	7447394		X	X				10	
Mercuric chloride	MERCURICHLORIDE	7489747	X				500/10,000		1	
Selenium sulfide	SELENIUMSULFIDE	7489564		X	X	X			10	U205
Titanium tetrachloride	TITANIUMTETRACHLOR	7550450	X	X	X		100	1.0	1	
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	7558794		X	X				5,000	
Lithium hydride	LITHIUM HYDRIDE	7580678	X				100		1	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	7601549		X	X				5,000	
Sodium arsenate	SODIUM ARSENATE	7631892	X		X		1,000/10,000		1	
Sodium bisulfite	SODIUM BISULFITE	7631925		X	X				5,000	

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302				EPCRA 302 TPD (H)	Definition Concent. (I)	PD (J)	CERCLA CODE (K)
			(D)	(E)	(F)	(G)				
Sodium nitrite	SODIUM NITRITE	7632000								
Boron trifluoride	BORON TRIFLUORIDE	7637072	X				500		100	
Lead arsenate	LEAD ARSENATE	7645252			X				1	
Zinc chloride	ZINC CHLORIDE	7646859			X				1,000	
Hydrochloric acid	HYDROCHLORIC ACID	7647010	X	X	X		1.0	5,000		
Hydrogen chloride (gas only)	HYDROGEN CHLORIDE (Gas Only)	7647010	X	X	X		500	1.0	5,000	
Antimony pentachloride	ANTIMONY PENTACHLORIDE	7647189			X				1,000	
Phosphoric acid	PHOSPHORIC ACID	7664362	X	X	X				1,000	
Hydrofluoric acid	HYDROFLUORIC ACID	7664393	X	X	X	X	100	1.0	100	U134
Hydrogen fluoride	HYDROGEN FLUORIDE	7664393	X	X	X	X	100	1.0	100	U134
Ammonia	AMMONIA	7664417	X	X	X		500	1.0	100	
Sulfuric acid	SULFURIC ACID	7664939	X	X	X		1,000	1.0	1,000	
Sodium fluoride	SODIUM FLUORIDE	7681494			X				1,000	
Sodium hypochlorite	SODIUM HYPOCHLORITE	7681529			X				100	
Nitric acid	NITRIC ACID	7697372	X	X	X		1,000	1.0	1,000	
Zinc bromide	ZINC BROMIDE	7699456			X				1,000	
Ferric chloride	FERRIC CHLORIDE	7705080			X				1,000	
Nickel chloride	NICKEL CHLORIDE	7718549			X				1,000	
Phosphorus trichloride	PHOSPHORUS TRICHLORIDE	7719122	X		X		1,000		1,000	
Ferrous sulfate	FERROUS SULFATE	7720787			X				1,000	
Potassium permanganate	POTASSIUM PERMANGANATE	7723647			X				100	
Hydrogen peroxide (Conc. > 52%)	HYDROGEN PEROXIDE (Conc. > 52%)	7722841	X		X		1,000		1	
Phosphorus	PHOSPHORUS	7723140	X		X		100		1	
Phosphorus (yellow or white)	PHOSPHORUS	7723140	X	X	X		100	1.0	1	
Bromine	BROMINE	7726956	X		X		500		1	
Zinc sulfate	ZINC SULFATE	7733020			X				1,000	
Chromic acid	CHROMIC ACID	7738945			X				10	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	7758509			X				5,000	
Ferrous chloride	FERROUS CHLORIDE	7758943			X				100	
Lead chloride	LEAD CHLORIDE	7758954			X				100	
Cupric sulfate	CUPRIC SULFATE	7758967			X				10	
Silver nitrate	SILVER NITRATE	7761888			X				1	
Ammonium sulfamate	AMMONIUM SULFAMATE	7773060			X				5,000	
Sodium chromate	SODIUM CHROMATE	7775113			X				10	
Arsenic acid	ARSENIC ACID	7778394			X	X			10	PO10
Calcium arsenate	CALCIUM ARSENATE	7778441	X		X		500/10,000		1	
Potassium dichromate	POTASSIUM DICHROMATE	7782509			X				10	
Calcium hypochlorite	CALCIUM HYPOCHLORITE	7778543			X				10	
Zinc hydrosulfite	ZINC HYDROSULFITE	7779664			X				1,000	
Zinc nitrate	ZINC NITRATE	7779686			X				1,000	
Fluorine	FLUORINE	7782414	X		X	X	500		10	PO56
Selenium	SELENIUM	7782492	X	X	X		100	1.0	100*	
Chlorine	CHLORINE	7782505	X	X	X		100	1.0	10	
Ferrous sulfate	FERROUS SULFATE	7782630			X				1,000	
Sodium selenite	SODIUM SELENITE	7782823			X				100	
Mercurous nitrate	MERCUROUS NITRATE	7782867			X				10	
Selenious acid	SELENIOS ACID	7783008	X		X	X	1,000/10,000		10	U204
Hydrogen sulfide	HYDROGEN SULFIDE	7783064	X	X	X	X	500	1.0	100	U135
Hydrogen selenide	HYDROGEN SELENIDE	7783075	X		X		10		1	
Ammonium sulfate (solution)	AMMONIUM SULFATE	7783202		X				1.0	1	
Mercuric sulfate	MERCURIC SULFATE	7783359			X				10	
Lead fluoride	LEAD FLUORIDE	7783462			X				100	
Zinc fluoride	ZINC FLUORIDE	7783495			X				1,000	
Ferric fluoride	FERRIC FLUORIDE	7783508			X				100	
Antimony trifluoride	ANTIMONY TRIFLUORIDE	7783564			X				1,000	
Sulfur tetrafluoride	SULFUR TETRAFLUORIDE	7783600	X		X		100		1	
Antimony pentafluoride	ANTIMONY PENTAFLUORIDE	7783702	X		X		500		1	
Tellurium hexafluoride	TELLURIUM HEXAFLUORIDE	7783804	X		X		100		1	
Arsenous trichloride	ARSENOUS TRICHLORIDE	7784341	X		X		500		1	
Lead arsenate	LEAD ARSENATE	7784409			X				1	
Potassium arsenate	POTASSIUM ARSENATE	7784410			X				1	
Arsine	ARSINE	7784421	X		X		100		1	
Sodium arsenite	SODIUM ARSENITE	7784465	X		X		500/10,000		1	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	7785844			X				5,000	
Nevirapine	NEVIRAPINE	7786347	X		X		500		10	
Nickel sulfate	NICKEL SULFATE	7786814			X				100	
Beryllium chloride	BERYLLIUM CHLORIDE	7787475			X				1	
Beryllium fluoride	BERYLLIUM FLUORIDE	7787497			X				1	
Beryllium nitrate	BERYLLIUM NITRATE	7787555			X				1	
Ammonium chromate	AMMONIUM CHROMATE	7789889			X				10	
Potassium chromate	POTASSIUM CHROMATE	7789906			X				10	
Strontium chromate	STRONTIUM CHROMATE	7789962			X				10	
Barium dichromate	BARIUM DICHROMATE	7789995			X				10	
Cadmium bromide	CADMIUM BROMIDE	7789426			X				10	
Cobaltous bromide	COBALTOUS BROMIDE	7789437			X				1,000	
Antimony tribromide	ANTIMONY TRIBROMIDE	7789619			X				1,000	

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			302 (D)	313 (E)	CERCLA (F)	RCSA (G)				
Chlorosulfonic acid	CHLOROSULFONIC ACID	7790945			X			1,000		
Thallium chloride TlCl	THALLIUMCHLORIDE TICI	7791120	X		X	X	100/10,000	100		U216
Thallous chloride	THALLOUS CHLORIDE	7791120	X		X	X	100/10,000	100		U216
Selenium oxychloride	SELENIUMOXYCHLORIDE	7791233	X		X		500	1		
Phosphine	PHOSPHINE	7803512	X		X	X	500	100		P096
Arsenicum vanadate	ARSENICUMVANADATE	7803512	X		X	X	500	1,000		P119
Camphchlor	CAMPHECHLOR	8001352	X	X	X	X	500/10,000	0.1		P123
Camphene, octachloro-	CAMPHENE, OCTACHLORO-	8001352	X	X	X	X	500/10,000	0.1		P123
Tosobenzene	TOSABENZENE	8001589	X	X	X	X	500/10,000	0.1		P123
Cresote	CRESOTE	8001589	X	X	X	X	500/10,000	0.1		U051
Dichloropropene - Dichloropropene (mixture)	DICHLOROPROPENE - DICHLOROPROPENE (MIXTURE)	8003198	X		X			100		
Pyrethrins	PYRETHRINS	8003347	X		X			1		
Sulfuric acid (fuming)	SULFURICACID (FUMING)	8014957			X			1,000		
Demeton	DEMETON	8065483	X		X		500	1		
Sodium hypochlorite	SODIUM HYPOCHLORITE	10027705	X		X			100		
Chromic chloride	CHROMIC CHLORIDE	10025752	X		X		1/10,000	1		
Phosphorus oxychloride	PHOSPHORUS OXYCHLORIDE	10025873	X		X		500	1,000		
Antimony trichloride	ANTIMONYTRICHLORIDE	10025919			X			1,000		
Zirconium tetrachloride	ZIRCONIUMTETRACHLORIDE	10026116			X			5,000		
Phosphorus pentachloride	PHOSPHORUS PENTACHLORIDE	10026138	X		X		500	1		
Ozone	OZONE	10028156	X		X		100	1		
Ferric sulfate	FERRIC SULFATE	10028225			X			1,000		
Thallium sulfate	THALLIUMSULFATE	10031591	X		X		100/10,000	100		
Hydrazine sulfate	HYDRAZINESULFATE	10034932			X			0.1		
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	10101890			X			5,000		
Aluminum sulfate	ALUMINUMSULFATE	10043013			X			5,000		
Ferrous ammonium sulfate	FERRICAMMONIUM SULFATE	10045893			X			1,000		
Mercuric nitrate	MERCURICNITRATE	10046540			X			10		
Chlorine dioxide	CHLORINEDIOXIDE	10049044	X		X			1.0		
Chromous chloride	CHROMOUS CHLORIDE	10049055			X			1,000		
Lead nitrate	LEADNITRATE	10099790			X			100		
Chromic sulfate	CHROMIC SULFATE	10101538			X			1,000		
Lead iodide	LEADIODIDE	10101630			X			100		
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10102064			X			5,000		
Uranyl nitrate	URANYL NITRATE	10102064			X			100		
Sodium selenite	SODIUM SELENITE	10102188	X		X		100/10,000	100		
Sodium tellurite	SODIUM TELLURITE	10102202	X		X		500/10,000	10		P076
Nitric oxide	NITROXIDE	10102430			X	X	100	10		P078
Nitrogen dioxide	NITROGEN DIOXIDE	10102440	X		X		100	10		U217
Thallium(I) nitrate	THALLIUMNITRATE	10102451			X	X		100		
Lead arsenate	LEADARSENATE	10102484			X			10		
Cadmium chloride	CADMIUM CHLORIDE	10108642			X			10		
Potassium arsenite	POTASSIUMARSENITE	10124502	X		X		500/10,000	1		
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10124566			X			5,000		
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	10140655			X			5,000		
Ethanol, 1,2-dichloro-, acetate	ETHANOL, 1,2-DICHLORO-, ACETATE	10140671	X		X		1,000	1		
Ammonium bisulfite	AMMONIUMBISULFITE	10192200			X			5,000		
Ammonium sulfite	AMMONIUMSULFITE	10196040			X			5,000		
Cobalt carbonyl	COBALTCARBONYL	10210681	X		X		10/10,000	1		
Methenidophos	METHENIDOPHOS	10265926	X		X		100/10,000	1		
Boron trichloride	BORON TRICHLORIDE	10294345	X		X		500	1		
Dialifor	DIALIFOR	10311849	X		X		100/10,000	1		
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10361894			X			5,000		
Cupric sulfate, ammoniated	CUPRIC SULFATE, AMMONIATED	10380277			X			100		
Mercurous nitrate	MERCUROUSNITRATE	10415755			X			10		
Ferric nitrate	FERRICNITRATE	10421484			X			1,000		
Methocrolein diacetate	METHOCROLEIN DIACETATE	10476566	X		X		1,000	1		
Nitrogen dioxide	NITROGEN DIOXIDE	10544726			X			10		
Sodium bichromate	SODIUM BICHROMATE	10589019			X			10		
Aroclor 1240	AROCLOR 1240	11096205			X			1		
Aroclor 1254	AROCLOR 1254	11097691			X			1		
Aroclor 1221	AROCLOR 1221	11104282			X			1		
Chromic acid	CHROMIC ACID	11115745			X			10		
Aroclor 1232	AROCLOR 1232	11141165			X			1		
Cupric acetarsenite	CUPRIC ACETARSENITE	12002038	X		X		500/10,000	1		
Paris green	PARIS GREEN	12002038	X		X		500/10,000	1		
Selenious acid, dithallium(1+) salt	SELENIOS ACID, DITHALLIUM(1+) SALT	12039520	X		X	X		1,000		P114
Nickel hydroxide	NICKELHYDROXIDE	12054487			X			10		
Manganese, tricarbonyl, methylcyclopentadienyl	MANGANESE, TRICARBONYL METHYLCYCLOPENTADIENYL	12108133	X		X		100	1.0		
Zineb	ZINEB	12122677		X	X			1.0		
Ammonium fluoride	AMMONIUMFLUORIDE	12125018			X			100		
Ammonium chloride	AMMONIUMCHLORIDE	12125029			X			5,000		
Ammonium sulfide	AMMONIUMSULFIDE	12135161			X			100		
Maneb	MANEB	12427382		X	X			1.0		
Aroclor 1248	AROCLOR 1248	12672296			X			1		
Aroclor 1016	AROCLOR 1016	12674112			X			1		



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			(D)	(E)	(F)	(G)				
Sulfur monochloride	SULFURMONOCHLORIDE	12771083			X			1,000		
Terbufoe	TERBUFOE	13071799	X				100			
Phosphonidon	PHOSPHONIDON	13171216	X				100			
Ethoxyphos	ETHOXYPHOS	13194484	X				1,000			
Sodium selenate	SODIUM SELENATE	13410010	X				100/10,000			
Gallium trichloride	GALLIUM TRICHLORIDE	13490903	X				500/10,000			
Nickel carbonyl	NICKEL CARBONYL	13463393	X		X		1			P073
Iron, pentacarbonyl-	IRON, PENTACARBONYL-	13463406	X		X		100			
Tellurium	TELLURIUM	13494809	X				500/10,000			
2,4,5-T salts	T SALTS	13569591								
Beryllium nitrate	BERYLLIUM NITRATE	13597994			X			1,000		
Zirconium nitrate	ZIRCONIUM NITRATE	13746899			X			5,000		
Calcium chromate	CALCIUM CHROMATE	13765130			X	X		10		U032
Lead fluorate	LEAD FLUORATE	13814965			X			100		
Ammonium fluoroborate	AMMONIUM FLUOROBORATE	13826830			X			5,000		
sec-Butylamine	BUTYLAMINE-S	13892846			X			1,000		
Chalcous sulfamate	CHELTITE SULFAMATE	14017415			X			1,000		
Salcomine	SALCOMINE	14167181	X				500/10,000			
Nickel nitrate	NICKEL NITRATE	14216752			X			100		
Ammonium oxalate	AMMONIUM OXALATE	14258452			X			5,000		
Lithium chromate	LITHIUM CHROMATE	14307358			X			10		
Ammonium tartrate	AMMONIUM TARTRATE	14307438			X			5,000		
Zinc ammonium chloride	ZINCAMONIUM CHLORIDE	14639975			X			1,000		
Zinc ammonium chloride	ZINCAMONIUM CHLORIDE	14639986			X			1,000		
Zirconium sulfate	ZIRCONIUM SULFATE	14644612			X			5,000		
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-(((methylamino)carbonyl)amino)-	BICYCLO[2.2.1]HEPTANE-2-CARBONITRILE, 5-CHLORO-6-((METHYLAMINO)CARBONYLAMINO)-	15271417	X				500/10,000			
Nickel ammonium sulfate	NICKELAMONIUM SULFATE	15695190			X			100		
Lead sulfate	LEAD SULFATE	15739807			X			100		
2,3,4-Trichlorophenol	TRICHLOROPHENOL-A	15950660			X			10		
C.I. Direct Brown 95	CIDIRECTBROWN95	16071866			X			0.1		
N-Nitrosomocotine	NITROSOMOCOTINE	16943558			X			0.1		
Sodium hydrosulfide	SODIUM HYDROSULFIDE	16721805			X			5,000		
Ethanedithioic acid, N-[[methylamino]carbonyl]-	ETHANEDITHIOIC ACID, N-[[METHYLAMINO]CARBONYL]-	16756775	X		X	X	500/10,000			P066
Methyl	METHYL	16757775	X		X	X	500/10,000			P066
Zinc silicofluoride	ZINC SILICOFLUORIDE	16871719			X			5,000		
Ammonium silicofluoride	AMMONIUM SILICOFLUORIDE	16919190			X			1,000		
Zirconium potassium fluoride	ZIRCONIUM POTASSIUM FLUORIDE	16923998			X			1,000		
Decaborane (14)	DECABORANE (14)	17702419	X				500/10,000			
Formparanate	FORMPARANATE	17702577	X				100/10,000			
D-glucose, 2-deoxy-2-[[methylnitrosamino]-carbo	GLUCOSE, 2-DEOXY-2-[[METHYLNITROSAMINO]-CARBO	18883664			X	X		1		U206
Diborane	DIBORANE	19287457	X				100			
Pentaborane	PENTABORANE	19624227	X				500			
Osmium oxide OsO4 (T-4)-	OSMIUM OXIDE OSO4 (T-4)-	20816120			X	X		1.0 1,000		P087
Osmium tetroxide	OSMIUM TETROXIDE	20816120			X	X		1.0 1,000		P087
Digoxin	DIGOXIN	20830755	X				10/10,000			
Dalnocin	DALNOICIN	20830813			X	X		10		U059
Aluminum phosphide	ALUMINUM PHOSPHIDE	20897338	X		X	X		500		P036
Fosthietan	FOSTHIEDAN	21548323	X				500			
Leptophos	LEPTOPHOS	21609905	X				500/10,000			
Mercuric oxide	MERCURIOXIDE	21908932	X				500/10,000			
Chlorthiophos	CHLORTHIOPHOS	21923239	X				500			
Ferrophos	FERRIPHOS	22224926	X				10/10,000			
Osamyl	OSAMYL	23135230	X				100/10,000			
Formetanate hydrochloride	FORMETANATE HYDROCHLORIDE	23422539	X				500/10,000			
Pirimfos-ethyl	PRIMIFOS-ETHYL	23505411	X				1,000			
Benzamide,3,5-dichloro-N-(1,1-dimethyl-2-propenyl)-	BENZAMIDE,3,5-DICHLORO-N-(1,1-DIMETHYL-2-PROPENYL)-	23950585			X	X		5,000		U192
Triazofos	TRIAZOFOS	24017478	X				500			
Chlorophos	CHLOROPHOS	24934916	X				500			
Dinitrobenzene (mixed isomers)	DINITROBENZENE (MIXED)	25154545			X			100		
Nitrophenol (mixed isomers)	NITROPHENOL (MIXED)	25154956			X			100		
Sodium dodecylbenzenesulfonate	SODIUM DODECYLBENZENESULFONATE	25155300			X			1,000		
Trichlorophenol	TRICHLOROPHENOL	25167822			X			10		
2,4,5-T esters	T ESTERS	25168154			X			1,000		
2,4-D Esters	D ESTERS	25168267			X			100		
Dinitrotoluene (mixed isomers)	DINITROTOLUENE	25321146			X	X		1.0 10		
Dichlorobenzene	DICHLOROBENZENE	25321226			X	X		0.1 100		
Dichlorobenzene (mixed isomers)	DICHLOROBENZENE MIX	25321226			X	X		0.1 100		
Diaminotoluene (mixed isomers)	DIAMINOTOLUENEMIX	25376458			X	X	X	0.1 10		U221
Toluenediamine	TOLUENEDIAMINE	25376458			X	X	X	0.1 10		U221
Dinitrophenol	DINITROPHENOL	25950587			X			10		
Calcium dodecylbenzenesulfonate	CALCIUM DODECYLBENZENESULFONATE	26264062			X			1,000		
Carbamic acid, methyl-, O-((2,4-dimethyl-1,3-dithiolan-2-ylidene)amino)-	CARBAMIC ACID, METHYL-, O-((2,4-DIMETHYL-1,3-DIT	26419738	X				100/10,000			
Toluenedisocyanate (mixed isomers)	TOLUENEDIISOCYANATE	26471625			X	X		0.1 100		U223
Sodium azide (Na(N3))	SODIUM AZIDE (NA(N3))	26628228	X		X	X	500			P106
Dichloropropane	DICHLOROPROPANE	26638197			X			1,000		
Dichloropropane	DICHLOROPROPANE	26992238			X			100		

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			(D)	(E)	(F)	(G)				
Trichloro(dichlorophenyl)silane	TRICHLORO(DICHLOROPHENYL)SILANE	27137855	X				500		1	
Dodecylbenzenesulfonic acid	DODECYLBENZENESULFONIC ACID	27176870			X				1,000	
Triethanolamine dodecylbenzene sulfonate	TRIEHTANOLAMINE DODECYLBENZENE SULFONATE	27323417			X				1,000	
Vanadyl sulfate	VANADYL SULFATE	27774136			X				1,000	
Antimony potassium tartrate	ANTIMONYPOTASSIUM TARTRATE	28300745			X				100	
Xylylene dichloride	XYLENE DICHLORIDE	28347139	X		X		100/10,000		1	
Bromodichloro	BROMODICHLORIDE	28772567	X		X		100/10,000		1	
Parafomaldehyde	PARAFORMALDEHYDE	30625894			X				1,000	
Methacryloyloxyethyl isocyanate	METHACRYLOYLOXYETHYL ISOCYANATE	30674807	X		X		100		1	
2,4,5-TE esters	TE ESTERS	32534955			X				100	
beta - Endosulfan	ENDOSULFAN	33213659			X				1	
Dichlorotrifluoroethane	DICHLOROTRIFLUOROETHANE	34077877			X			1.0	1	
Thiofuran	THIOFURAN	35478769			X				100	
Nickel chloride	NICKELCHLORIDE	37211055			X				100	
2,4-Bisaminoisole sulfate	DIPIMINAMISOLESULF	39156417			X			0.1	1	
Isopropanolamine dodecylbenzene sulfonate	ISOPROPANLAMINE DODECYLBENZENE SULFONATE	39196184	X		X	X	100/10,000		100	
Phosphonothioic acid, methyl-, S-(2-bis(1-methylethyl)amino)	PHOSPHONOTHIOIC ACID, METHYL-, S-(2-(BIS(1-METHYLE	42604461	X		X	X	100		1,000	
Zinc ammonium chloride	ZINCAMMONIUM CHLORIDE	50782699	X		X				1	
Lead stearate	LEADSTEARATE	52628258			X				5,000	
Calcium arsenite	CALCIUMARSENITE	52740166			X				1	
2,4-D Esters	D ESTERS	53467111			X				100	
Acoclor 1242	ACOCLOL 1242	53468219			X				1	
Pyrimidin	PYRIMIDIN	53582251	X		X		100/10,000		1	
Ferric ammonium oxalate	FERRICAMMONIUMOXALATE	55488874			X				1,000	
Lead stearate	LEADSTEARATE	56180594			X				5,000	
Zinc, dichloro(4,4-dimethyl-5(((methylamino)carbonyloxy)	ZINC(DICHLORO(4,4-DIMETHYL-5(((METHYLAMINO) CARB	58703099	X		X		100/10,000		1	
2,4,5-T esters	T ESTERS	61792072			X				1,000	
Cobalt-(2,2'-(1,2-ethanediyli)bis(nitroloethylidene)bis(6	COBALT-(2,2'-(1,2-ETHANEDIYLI)BIS(NITROLOETHYLID	62207765	X		X		100/10,000		1	
Chlorotetrafluoroethane	CHLOROTETRAFLUOROETHANE	63938103			X			1.0	1	
Dichloro-1,1,2-trifluoroethane	DICHLORO-1,1,2-TRIFLUOROETHANE	90454185			X			1.0	1	
Antimony Compounds	ANTIMONYCOMPOUNDS	99999999			X	X		**	**	
Arsenic Compounds	ARSENIC COMPOUNDS	99999999			X	X		**	**	
Barium Compounds	BARIUM COMPOUNDS	99999999			X	X		**	**	
Beryllium Compounds	BERYLLIUM COMPOUNDS	99999999			X	X		**	**	
Calcium Compounds	CALCIUM COMPOUNDS	99999999			X	X		**	**	
Chlorane (Technical Mixture and Metabolites)	CHLORANE (TECHNICAL MIXTURE AND METABOLITES)	99999999			X	X		**	**	
Chlorinated Benzenes	CHLORINATED BENZENES	99999999			X	X		**	**	
Chlorinated Ethanes	CHLORINATED ETHANES	99999999			X	X		**	**	
Chlorinated Naphthalene	CHLORINATED NAPHTHALENE	99999999			X	X		**	**	
Chlorinated Phenols	CHLORINATED PHENOLS	99999999			X	X		**	**	
Chloroalkyl Ethers	CHLOROALKYL ETHERS	99999999			X	X		**	**	
Chlorophenols	CHLOROPHENOLS	99999999			X	X		**	**	
Chromium Compounds	CHROMIUM AND COMPOUNDS	99999999			X	X		**	**	
Cobalt Compounds	COBALT COMPOUNDS	99999999			X	X		**	**	
Coke Oven Emissions	COKE OVEN EMISSIONS	99999999			X	X		**	**	
Copper Compounds	COPPER COMPOUNDS	99999999			X	X		**	**	
Cyanide Compounds	CYANIDE COMPOUNDS	99999999			X	X		**	**	
DDT and Metabolites	DDT AND METABOLITES	99999999			X	X		**	**	
Dichlorobenzidine	DICHLOROBENZIDINE	99999999			X	X		**	**	
Diphenylhydrazine	DIPHENYLHYDRAZINE	99999999			X	X		**	**	
Endosulfan and Metabolites	ENDOSULFAN AND METABOLITES	99999999			X	X		**	**	
Endrin and Metabolites	ENDRIN AND METABOLITES	99999999			X	X		**	**	
Fine mineral fibers	MINERALFIBERS	99999999			X	X		**	**	
Glycol Ethers	GLYCOL ETHERS	99999999			X	X		**	**	
Halocethers	HALOCETHERS	99999999			X	X		**	**	
Halomethanes	HALOMETHANES	99999999			X	X		**	**	
Heptachlor and Metabolites	HEPTACHLOR AND METABOLITES	99999999			X	X		**	**	
Hexachlorocyclohexane (all isomers) CAS 608-73-1	HEXACHLOROCYCLOHEXANE	99999999			X	X		**	**	
Lead Compounds	LEAD COMPOUNDS	99999999			X	X		**	**	
Manganese Compounds	MANAGNESE COMPOUNDS	99999999			X	X		**	**	
Manganese Compounds	MANAGNESE COMPOUNDS	99999999			X	X		**	**	
Mercury Compounds	MERCURY COMPOUNDS	99999999			X	X		**	**	
Nickel Compounds	NICKEL AND COMPOUNDS	99999999			X	X		**	**	
Nitrophenols	NITROPHENOLS	99999999			X	X		**	**	
Nitrosamines	NITROSAMINES	99999999			X	X		**	**	
Organorhodium Complex (PNN-82-147)	ORGANORHODIUM COMPLEX (PNN-82-147)	99999999	X				10/10,000		1	
Phthalate Esters	PHTHALATE ESTERS	99999999			X	X		**	**	
Polybrominated Biphenyls (PBBs)	POLYBROMINATED BIPHENYLS (PBBs)	99999999			X	X		**	**	
Polycyclic organic matter	POLYCYCLOGRANVOMETER	99999999			X	X		**	**	
Polynuclear Aromatic Hydrocarbons	POLYNUCLEAR AROMATIC HYDROCARBONS	99999999			X	X		**	**	
Selenium Compounds	SELENIUM AND COMPOUNDS	99999999			X	X		**	**	
Silver Compounds	SILVER AND COMPOUNDS	99999999			X	X		**	**	
Thallium Compounds	THALLIUM AND COMPOUNDS	99999999			X	X		**	**	
Zinc Compounds	ZINC AND COMPOUNDS	99999999			X	X		**	**	

**Appendix 2**

**SARA TITLE III  
CONSOLIDATED CHEMICAL LIST  
Sorted by Chemical Name**

**A. General.**

1. The consolidated chemical listing includes all chemicals subject to *EPCRA* planning and reporting requirements in *EPCRA* 302, 304, and 313. The chemical listing contains additional information as well, e.g. CAS registry number, *TPQ*, *RQ*, and de minimus concentrations where applicable.
2. The EPA adds and delists chemicals. COMDT (G-ECV-1) will issue updates as the list changes. The list has been sorted two ways:

Appendix 1 - Sorted by Chemical Abstract Service (CAS) registry number.

Appendix 2 - Sorted by Alphabetical Name of the chemical.

**B. Column Explanations.**

- Column (A) - Chemical name; note that a given chemical may be listed several times because it has synonyms that are commonly used.
- Column (B) - Commonly known alternate name.
- Column (C) - CAS Registry number. The Chemical Abstract Service registers chemicals by assigning discrete identifying numbers. More than one chemical name may be listed for one CAS number because the same chemical may appear on different lists under different names.
- Column (D) - An "X" denotes that the chemical is an Extremely Hazardous Substances (*EHS*) and listed under *EPCRA* 302. The Threshold Planning Quantity (*TPQ*) is listed under column (H).
- Column (E) - An "X" denotes that the chemical is listed under *EPCRA* 313.
- Column (F) - An "X" denotes that the chemical is listed under the Comprehensive Environmental Response, Compensation, and Liability Act as amended (*CERCLA*, or "Superfund"). Releases of listed chemicals are reportable to the National Response Center, and now (because of *EPCRA* 304) also to the *SERC* and *LEPC*. This document also includes chemicals added to the *CERCLA* list because they are listed as hazardous air pollutants under section 112(b) of the Clean Air Act (CAA).
- Column (G) - An "X" denotes that the chemical is a RCRA chemical from the P and U lists (40 CFR 261.33)

**B. Column Explanations. cont'd.**

Column (H) - Threshold Planning Quantity (*TPQ*) for Extremely Hazardous Substances (*EHSs*) listed under EPCRA 302 (in pounds). For chemicals that are solids, there may be two *TPQs* given (e.g., 500/10,000). In these cases, the lower quantity applies for solids in powder form with particle size less than 100 microns, or if the substance is in solution or in molten form. Otherwise, the 10,000 pound *TPQ* applies.

Column (I) - De Minimus concentrations for chemicals that listed under EPCRA 313. Concentrations are 0.1% by weight for carcinogenic chemicals, and 1.0% for non-carcinogenic.

Column (J) - Reportable Quantities (*RQ*) under CERCLA. An asterisk ("\*") following the *RQ* indicates that no reporting of releases is required if the diameter of the pieces of the solid metal released is 100 micrometers (0.004 inches) or greater. Substances listed under CAA 112(b) that have been added to the *CERCLA* list with statutory one-pound *RQs* are indicated by a plus sign ("+") following the *RQ*. *EHS RQ*. Releases of *RQs* of *EHSs* are subject to state and local reporting under 304. If a chemical listed under 302 does not have a *CERCLA RQ*, a statutory *RQ* of one pound applies for 04 reporting.

Column (K) - RCRA P and U Codes.

All EPCRA 302/313 and CERCLA Chemicals

1 June 1994

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name.)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	EPCRA 302					EPCRA 302 TRG (H)	Definition Concent. (I)	RQ (J)	RSL CODE (K)
		CMS NUMBER (C)	(D)	(E)	(F)	(G)				
Acenaphthene	ACENAPHTHENE	83329			X				100	
Acenaphthylene	ACENAPHTHYLENE	208968			X			5,000		
Acetaldehyde	ACETALDEHYDE	75070		X	X	X		0.1	1,000	U001
Acetaldehyde, trichloro-	ACETALDEHYDE, TRICHLORO-	75076		X	X	X		5,000		U004
Acetamide	ACETAMIDE	60855		X	X	X		0.1	1+	
Acetic acid	ACETIC ACID	64197			X			5,000		
Acetic anhydride	ACETIC ANHYDRIDE	106247			X			5,000		
Acetone	ACETONE	67641		X	X	X		1.0	5,000	U002
Acetone cyanohydrin	ACETONE CYANOHYDRIN	75865	X	X	X	X	1,000	10		U003
Acetone thiosemicarbazide	ACETONE THIOSEMICARBAZIDE	175233	X				1,000/10,000			U009
Acetonitrile	ACETONITRILE	75058		X	X	X		1.0	5,000	U003
Acetophenone	ACETOPHENONE	58862		X	X	X		1.0	5,000	U004
2-Acetylaminofluorene	ACETYLAMINOFLUORENE	53963		X	X	X		0.1	1	U005
Acetyl bromide	ACETYL BROMIDE	506667			X			5,000		
Acetyl chloride	ACETYLCHLORIDE	75365			X			5,000		U006
1-Acetyl-2-thiourea	ACETYLTHIOUREA	551082			X			1,000		U007
Acrolein	ACROLEIN	107028	X	X	X	X	500	1.0	1	U008
Acrylamide	ACRYLAMIDE	79061	X	X	X	X	1,000/10,000	0.1	5,000	U007
Acrylic acid	ACRYLICACID	79107	X	X	X	X		1.0	5,000	U008
Acrylonitrile	ACRYLONITRILE	107131	X	X	X	X	10,000	0.1	100	U009
Acrylyl chloride	ACRYLYL CHLORIDE	814586	X				100	1		
Adipic acid	ADIPIC ACID	124049			X			5,000		
Adiponitrile	ADIPONITRILE	111693	X				1,000	1		
Aldicarb	ALDICARB	116063	X	X	X	X	100/10,000	1		P070
Aldrin	ALDRIN	309002	X	X	X	X	500/10,000	1.0	1	P008
Allyl alcohol	ALLYLALCOHOL	107136	X	X	X	X	1,000	1.0	100	P005
Allyl amine	ALLYLAMINE	107119	X				500	1		
Allyl chloride	ALLYLCHLORIDE	107051		X	X			1.0	1,000	
Aluminum (fume or dust)	ALUMINUM	7429905		X				1.0	1	
Aluminum oxide (fibrous form)	ALUMINUM OXIDE	1344281		X				0.1	1	
Aluminum phosphide	ALUMINUMPHOSPHIDE	20859738	X	X	X	X	500	100		P006
Aluminum sulfate	ALUMINUMSULFATE	10043013		X	X			5,000		
2-Aminoanthraquinone	AMINOANTHRAQUINONE	117753		X	X			0.1	1	
4-Aminoazobenzene	AMINOAZOBENZENE	60093		X	X			0.1	1	
4-Aminobiphenyl	AMINOBIIPHENYL	92671		X	X			0.1	1+	
1-Amino-2-methylanthraquinone	AMINOMETHYLANTHRAQUINONE	82280		X	X			0.1	1	
Aminopterin	AMINOPTERIN	54626	X				500/10,000	1		P008
4-Aminopyridine	AMINOPYRIDINE	504245	X		X	X	500/10,000	1,000		P008
Ammon	AMMON	78535	X				500	1		
Ammon oxalate	AMMON OXALATE	3734972	X				100/10,000	1		
Amtriole	AMTRIOLE	61825	X	X	X	X		0.1	10	U011
Ammonia	AMMONIA	7664417	X	X	X	X	500	1.0	100	
Ammonium acetate	AMMONIUMACETATE	631618			X			5,000		
Ammonium benzoate	AMMONIUMBENZOATE	1863634			X			5,000		
Ammonium bicarbonate	AMMONIUMBICARBONATE	1066357			X			5,000		
Ammonium bichromate	AMMONIUMBICHRONATE	7789025			X			10		
Ammonium bifluoride	AMMONIUMBIFLUORIDE	1341497			X			100		
Ammonium bisulfite	AMMONIUMBISULFITE	10152300			X			5,000		
Ammonium carbonate	AMMONIUMCARBONATE	1111750			X			5,000		
Ammonium carbonate	AMMONIUMCARBONATE	506876			X			5,000		
Ammonium chloride	AMMONIUMCHLORIDE	12125029			X			5,000		
Ammonium chromate	AMMONIUMCHROMATE	768999			X			10		
Ammonium citrate, dibasic	AMMONIUMCITRATE, DIBASIC	3012655			X			5,000		
Ammonium fluoroborate	AMMONIUMFLUOROBORATE	13826830			X			5,000		
Ammonium fluoride	AMMONIUMFLUORIDE	12125018			X			100		
Ammonium hydroxide	AMMONIUMHYDROXIDE	1336216			X			1,000		
Ammonium nitrate (solution)	AMMONIUMNITRATE	6484522		X				1.0		
Ammonium oxalate	AMMONIUMOXALATE	5972736			X			5,000		
Ammonium oxalate	AMMONIUMOXALATE	6009707			X			5,000		
Ammonium picrate	AMMONIUMPICRATE	14258492			X			5,000		P009
Ammonium silicofluoride	AMMONIUMSILICOFUORIDE	131748			X	X		10		
Ammonium silicofluoride	AMMONIUMSILICOFUORIDE	16919130			X			1,000		P009
Ammonium sulfanate	AMMONIUMSULFANATE	7773060			X			5,000		
Ammonium sulfate (solution)	AMMONIUMSULFATE	7753202		X				1.0		
Ammonium sulfide	AMMONIUMSULFIDE	12125761			X			100		
Ammonium sulfite	AMMONIUMSULFITE	10156040			X			5,000		
Ammonium tartrate	AMMONIUMTARTRATE	3164292			X			5,000		
Ammonium tartrate	AMMONIUMTARTRATE	14307438			X			5,000		
Ammonium thiocyanate	AMMONIUMTHIOCYANATE	1762954			X			5,000		
Ammonium vanadate	AMMONIUMVANADATE	7803556			X	X		5,000		P119
Amphetamine	AMPHETAMINE	300629			X			1		
Amyl acetate	AMYLACETATE	628637	X			X	1,000	5,000		
iso-Amyl acetate	AMYLACETATE-1	123922			X			5,000		

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302				CERCLA (F)	EPCRA (G)	EPCRA 302 TQ (H)	DeMinimus Concent. (I)	RQ (J)	RCRA CODE (K)
			(D)	(E)	(F)	(G)						
sec-Amyl acetate	AMYACETATE-S	626380				X				5,000		
tert-Amyl acetate	AMYACETATE-T	625161				X				5,000		
Aniline	ANILINE	62533	X	X	X	X		1,000	1.0	5,000	U012	
Aniline, 2,4,6-trimethyl-	ANILINE, 2,4,6-TRIMETHYL-	90040	X	X	X	X		500	0.1	1*		
o-Anisidine	ANISIDINE	104949				X				1.0		
p-Anisidine	ANISIDINE	13423				X				0.1		
o-Anisidine hydrochloride	ANISIDINE HYDROCHL	120127				X	X			1.0	5,000	
Anthracene	ANTHRACENE	120127				X	X			1.0	5,000*	
Antimony	ANTIMONY	7440360				X	X			1.0	5,000*	
Antimony Compounds	ANTIMONY COMPOUNDS	9999999				X	X			**	**	
Antimony pentachloride	ANTIMONYPENTACHLORIDE	7647189				X	X			1,000		
Antimony pentafluoride	ANTIMONYPENTAFLUORIDE	7783702	X			X		500		1		
Antimony potassium tartrate	ANTIMONYPOTASSIUM TARTRATE	28500745				X				100		
Antimony tribromide	ANTIMONYTRIBROMIDE	7789619				X				1,000		
Antimony trichloride	ANTIMONYTRICHLORIDE	10025919				X				1,000		
Antimony trifluoride	ANTIMONYTRIFLUORIDE	7783568				X				1,000		
Antimony triiodide	ANTIMONYTRIIODIDE	1309644				X				1,000		
Antimony trioxide	ANTIMONYTRIOXIDE	1309644				X				1,000		
Antimony A	ANTIMONY A	1397940	X			X		1,000/10,000		1		
Antu	ANTU	66884	X			X		500/10,000		100	P072	
Aroclor 1016	AROCLOR 1016	1267412				X	X			1		
Aroclor 1221	AROCLOR 1221	11104282				X				1		
Aroclor 1252	AROCLOR 1252	11141165				X				1		
Aroclor 1242	AROCLOR 1242	53469219				X				1	P072	
Aroclor 1248	AROCLOR 1248	12672296				X				1		
Aroclor 1254	AROCLOR 1254	11097691				X				1		
Aroclor 1260	AROCLOR 1260	11096825				X				1		
Arsenic	ARSENIC	7440382				X	X			0.1	1*	
Arsenic acid	ARSENIC ACID	1327522				X	X			1	P010	
Arsenic acid	ARSENIC ACID	7783594				X	X			1	P010	
Arsenic Compounds	ARSENIC COMPOUNDS	9999999				X	X			**	**	
Arsenic disulfide	ARSENIC DISULFIDE	1303328				X	X			1		
Arsenic pentoxide	ARSENIC PENTOXIDE	1303282	X			X	X	100/10,000		1	P011	
Arsenic trioxide	ARSENIC TRIOXIDE	1303339				X	X	100/10,000		1	P012	
Arsenic trisulfide	ARSENIC TRISULFIDE	1303339				X	X			1		
Arsenous oxide	ARSENIOUS OXIDE	1327533	X			X	X	100/10,000		1	P012	
Arsenous trichloride	ARSENIOUS TRICHLORIDE	7784341				X	X	500		1		
Arsine	ARSINE	7784421				X	X	100		1		
Asbestos (friable)	ASBESTOS	1332214				X	X			0.1	1	
Alumina	ALUMINA	498208				X	X			0.1	100	
Azaserine	AZASERINE	115026				X	X			1	U014	
Azaphos-ethyl	AZAPHOS-ETHYL	2642719	X			X		100/10,000		1	U015	
Azaphos-methyl	AZAPHOS-METHYL	86500	X			X		10/10,000		1		
Aziridine	AZIRIDINE	151564	X	X	X	X		500	0.1	1	P054	
Aziridine, 2-methyl	AZIRIDINE, 2-METHYL	75598	X	X	X	X		10,000	0.1	1	P067	
Barium	BARIUM	7440393				X	X			1.0		
Barium Compounds	BARIUM COMPOUNDS	9999999				X	X			**	**	
Barium cyanide	BARIUM CYANIDE	542621				X	X			10	P013	
Benz(c)acridine	BENZACRIDINE	225514				X	X			100	U016	
Benzal chloride	BENZALCHLORIDE	98673	X	X	X	X		500	1.0	5,000	U017	
Benzamide	BENZAMIDE	55210				X	X			1.0		
Benzamide, 2,5-dichloro-N-(1,1-dimethyl-2-propenyl)	BENZAMIDE, 2,5-DICHLORO-N-(1,1-DIMETHYL-2-PROPENYL)	23950585				X	X			5,000	U192	
Benz(a)anthracene	BENZANTHACENE	56553				X	X			10	U018	
Benzene	BENZENE	71432	X	X	X	X		500	0.1	10	U019	
Benzeneselenic acid	BENZENESELENIC ACID	98095				X	X	10/10,000		1		
Benzene, 1-(chloromethyl)-4-nitro-	BENZENCHLOROMETHYL-4-NITRO-	100141	X			X		500/10,000		1		
Benzene, m-dimethyl-	BENZENEDIMETHYL-M	108383				X	X			1.0	1,000	
Benzene, o-dimethyl-	BENZENEDIMETHYL-O	95476				X	X			1.0	1,000	
Benzene, p-dimethyl-	BENZENEDIMETHYL-P	106423				X	X			1.0	1,000	
Benzeneethanamine, alpha, alpha-dimethyl-	BENZENEETHANAMINE, ALFA,ALFA-DIMETHYL-	122098				X	X			5,000	P046	
Benzenesulfonyl chloride	BENZENSULFONYL CHLORIDE	98099				X	X			100	U020	
Benzethiol	BENZETHIOL	10898	X			X		500		100	P014	
Benzidine	BENZIDINE	92875				X	X			0.1	1	
Benzimidazole, 4,5-dichloro-2-(trifluoromethyl)-	BENZIMIDAZOLE, 4,5-DICHLORO-2-(TRIFLUOROMETHYL)-	3615212	X			X		500/10,000		1	U021	
Benzo(b)fluoranthene	BENZOFLUORANTHENE	207089				X				5,000		
Benzoic acid	BENZOIC ACID	65850				X				5,000		
Benzoic trichloride	BENZOICTRICHLORIDE	98077	X	X	X	X		100	0.1	10	U023	
Benzonitrile	BENZONITRILE	100470				X				5,000		
Benzo(ghi)perylene	BENZOPERYLENE	191242				X				5,000		
Benzo(a)pyrene	BENZOPYRENE	50328				X				1	U022	
p-Benzquinone	BENZQUINONE	106514				X	X			1.0	10	
Benzotrifluoride	BENZOTRIFLUORIDE	98077	X	X	X	X		100	0.1	10	U023	
Benzoyl chloride	BENZOYLCHLORIDE	98084				X	X			1.0	1,000	
Benzoyl peroxide	BENZOYLPEROXIDE	94360				X				1.0		
Benzyl chloride	BENZYLCHLORIDE	100447	X	X	X	X		500	1.0	100	P028	

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA				EPCRA 302 TRG (R)	DeMinimis Concent. (I)	RQ (J)	RCRA CODE (K)
			302 (D)	313 (E)	CERCLA (F)	RCRA (G)				
Beryllium cyanide	BERYLLIUM CYANIDE	140294	X				500		1	
Beryllium	BERYLLIUM	7440417		X	X	X		0.1	10 <sup>6</sup>	P015
Beryllium chloride	BERYLLIUM CHLORIDE	7787475		X	X				1	
Beryllium Compounds	BERYLLIUM COMPOUNDS	9999999		X	X			**	**	
Beryllium fluoride	BERYLLIUM FLUORIDE	7787497		X	X				1	
Beryllium nitrate	BERYLLIUM NITRATE	7787555			X				1	
Beryllium nitrate	BERYLLIUM NITRATE	1359794			X				1	
alpha-BHC	BHC	319846			X				10	
beta-BHC	BHC	319857			X				1	
delta-BHC	BHC	319868			X				1	
Bicyclo[2.2.1]heptane-2-carbonitrile, 5-chloro-6-(((methylamino)oxy)oxy)(2.2.1)heptane-2-carbonitrile, 5-chloro-6-	BICYCLO[2.2.1]HEPTANE-2-CARBONITRILE, 5-CHLORO-6-((METHYLAMINO)OXY)OXY(2.2.1)HEPTANE-2-CARBONITRILE, 5-CHLORO-6-	15771417	X				500/10,000		1	
2,2'-Bioxirane	BIOXIRANE	1464535	X	X	X	X	500	0.1	10	U085
Biphenyl	BIPHENYL	92524	X	X	X			1.0	10	U074
Bis(2-chloroethoxy) methane	BISCHLOROETHOXYMETHANE	111911	X	X	X			1.0	10	U025
Bis(2-chloroethyl) ether	BISCHLOROETHYLETHYER	111444	X	X	X	X	10,000	1.0	10	U016
Bis(chloromethyl) ether	BISCHLOROMETHYLETHYER	542881	X	X	X	X	100	0.1	10	U027
Bis(2-chloro-1-methylethyl) ether	BISCHLOROETHYLETHYER	108603	X	X	X	X		1.0	1,000	
Bis(chloromethyl) ketone	BISCHLOROMETHYLKETONE	534076	X				10/10,000		1	
Bis(2-ethylhexyl) adipate	BISETHYLHEXYLADIPATE	103231		X				1.0	1	
Bis(2-ethylhexyl) phthalate	BISETHYLHEXYLPHthalATE	117819		X	X	X		0.1	100	U028
Bismutamate	BISMUTAMATE	4044652		X					1	
Boron trichloride	BORON TRICHLORIDE	10294345	X				500/10,000		1	
Boron trifluoride	BORON TRIFLUORIDE	7637072	X				500		1	
Boron trifluoride compound with methyl ether (1:1)	BORON TRIFLUORIDE COMPOUND WITH METHYL ETHER (1:1)	389424	X				500		1	
Bromadiolone	BROMADIOLONE	28772567	X				100/10,000		1	
Bromine	BROMINE	7728956	X				500		1	
Bromoacetone	BROMOACETONE	59832		X	X	X			1,000	P017
Bromochlorodifluoromethane [Halon 1211]	BROMOCHLORODIFLUOROMETHANE	353583		X	X	X		1.0	100	U225
Bromoforn	BROMOFORN	75252		X	X	X		1.0	100	U029
Bromoethane	BROMOETHANE	74939	X	X	X		1,000	1.0	100	U030
4-Bromophenyl phenyl ether	BROMOPHENYL PHENYL ETHER	101553		X	X	X			100	
Bromotrifluoromethane [Halon 1301]	BROMOTRIFLUOROMETHANE	75638		X	X	X		1.0	100	P018
Bromine	BROMINE	7728956		X	X	X			100	
1,3-Butadiene	BUTADIENE	106990	X	X	X			0.1	10 <sup>6</sup>	
2-Butene, 1,4-dichloro-	BUTENEDI CHLORO-	764410	X	X	X	X		1.0	1	U074
Butyl acetate	BUTYLACETATE	120664		X	X				5,000	
iso-Butyl acetate	BUTYLACETATE-I	110190		X	X				5,000	
sec-Butyl acetate	BUTYLACETATE-S	105464		X	X				5,000	
tert-Butyl acetate	BUTYLACETATE-T	540885		X	X				5,000	
Butyl acrylate	BUTYLACRYLATE	141522		X	X			1.0	10	
n-Butyl alcohol	BUTYLALCOHOL	71363		X	X	X		1.0	5,000	U031
sec-Butyl alcohol	BUTYLALCOHOL	78922		X	X			1.0	10	
tert-Butyl alcohol	BUTYLALCOHOL	75650		X	X			1.0	10	
Butylamine	BUTYLAMINE	107739		X	X				1,000	
iso-Butylamine	BUTYLAMINE-I	78819		X	X				1,000	
sec-Butylamine	BUTYLAMINE-S	513495		X	X				1,000	
tert-Butylamine	BUTYLAMINE-T	13952846		X	X				1,000	
Butyl benzyl phthalate	BUTYL BENZYL PHthalATE	75649		X	X	X		1.0	100	
1,2-Butylene oxide	BUTYLENEOXIDE	85687		X	X			1.0	100	
n-Butyl phthalate	BUTYLPHthalATE	84742		X	X	X		1.0	10	U069
Butyraldehyde	BUTYRALDEHYDE	123728		X	X			1.0	10	
iso-Butyric acid	BUTYRIC ACID	78312		X	X				5,000	
Butyric acid	BUTYRIC ACID	107926		X	X				5,000	
Crocidic acid	CROCIDIC ACID	75606		X	X	X			1	U136
Cadmium	CADMIUM	7440439		X	X			0.1	10 <sup>6</sup>	
Cadmium acetate	CADMIUM ACETATE	543908		X	X				10	
Cadmium bromide	CADMIUM BROMIDE	7789426		X	X				10	
Cadmium chloride	CADMIUM CHLORIDE	1010942		X	X				10	
Cadmium Compounds	CADMIUM COMPOUNDS	9999999		X	X			**	**	
Cadmium oxide	CADMIUM OXIDE	1306190	X				100/10,000		1	
Cadmium stearate	CADMIUM STEARATE	2223930	X				1,000/10,000		1	
Calcium arsenate	CALCIUM ARSENATE	7778441	X		X		500/10,000		1	
Calcium arsenite	CALCIUM ARSENITE	52740166		X	X				1	
Calcium carbide	CALCIUM CARBIDE	75207		X	X				10	
Calcium chromate	CALCIUM CHROMATE	13765190		X	X				10	U032
Calcium cyanamide	CALCIUM CYANAMIDE	156627		X	X			1.0	10	
Calcium cyanide	CALCIUM CYANIDE	594018		X	X	X			10	P021
Calcium dodecylbenzenesulfonate	CALCIUM DODECYLBENZENESULFONATE	26264062		X	X			1,000	10	
Calcium hypochlorite	CALCIUM HYPOCHLORITE	7778543		X	X				10	
Camphechlor	CAMPHECHLOR	8001352	X	X	X	X	500/10,000	0.1	1	P123
Caprene, octachloro-	CAPRENE, OCTACHLORO-	9001352	X	X	X	X	500/10,000	0.1	1	P123
Cantharidin	CANTHARIDIN	56257		X	X		100/10,000		1	
Caprolactam	CAPROLACTAM	105602		X	X				10	
Capran	CAPRAN	133062		X	X				10	
Carbaryl chloride	CARBARYL CHLORIDE	51832	X	X	X		500/10,000	1.0	10	

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302/313				EPCRA 302 TQ (H)	Definition Concent. (I)	RQ (J)	RCA CODE (K)
			(D)	(E)	(F)	(G)				
Carbamic acid, ethyl ester	CARBAMIC ACID, ETHYL ESTER	51796		X	X	X		0.1	100	U238
Carbamic acid, methyl-, O-(((2,4-dimethyl-1, 3-dithiolan-2-ylideneamino)oxy)methyl)-	CARBAMIC ACID, METHYL-, O-(((2,4-DIMETHYL-1, 3-DIT	26419738	X				100/10,000	1.0	100	
Carbaryl	CARBARYL	63222		X	X			1.0	10	
Carbofuran	CARBOFURAN	156399	X	X	X		10/10,000	1.0	10	
Carbon disulfide	CARBONDISULFIDE	75150	X	X	X	X	10,000	1.0	100	P022
Carbon difluoride	CARBONIC DIFLUORIDE	353504		X	X	X		1.0	1,000	U033
Carbon tetrachloride	CARBONTETRACHLORIDE	56236		X	X	X		1.0	10	U211
Carbonyl sulfide	CARBONYLSULFIDE	463581		X	X	X		0.1	1+	
Carbophenothion	CARBOPHENOTHION	786198	X				500	1.0	1+	
Catechol	CATECHOL	120309		X	X			1.0	1+	
CFC-11	CFC-11	75694		X	X	X		1.0	5,000	U121
CFC-12	CFC-12	75718		X	X	X		1.0	5,000	U075
CFC-114	CFC-114	292142		X	X	X		1.0	1+	
CFC-115	CFC-115	76153		X	X			1.0	1+	
Chloramben	CHLORAMBEN	133904		X	X			1.0	1+	
Chlorambucil	CHLORAMBUCIL	305033		X	X	X		1.0	10	U035
Chlordane	CHLORDANE	57749	X	X	X	X	1,000	1.0	1+	U036
Chlordane (Technical Mixture and Metabolites)	CHLORDANE (TECHNICAL MIXTURE AND METABOLITES)	99999999		X	X			1.0	1+	
Chlorferrifos	CHLORFERRIFOS	470506	X				500	1.0	1+	
Chlorinated Benzene	CHLORINATED BENZENES	99999999		X	X			1.0	1+	
Chlorinated Ethanes	CHLORINATED ETHANES	99999999		X	X			1.0	1+	
Chlorinated Naphthalene	CHLORINATED NAPHTHALENE	99999999		X	X			1.0	1+	
Chlorinated Phenols	CHLORINATED PHENOLS	99999999		X	X			1.0	1+	
Chlorine	CHLORINE	7782505	X	X	X		100	1.0	10	
Chlorine dioxide	CHLORINE DIOXIDE	10049044		X	X			1.0	10	
Chloroacetic acid	CHLOROACETIC ACID	2495416	X				500	1.0	1+	
Chloroacetamide	CHLOROACETAMIDE	999815	X				100/10,000	1.0	1+	
Chloroacetophenone	CHLOROACETOPHENONE	494031		X	X	X		1.0	100	U026
Chloroacetaldehyde	CHLOROACETALDEHYDE	107400		X	X	X		1.0	1,000	P023
Chloroacetic acid	CHLOROACETIC ACID	79116	X	X	X		100/10,000	1.0	10	
2-Chloroacetophenone	CHLOROACETOPHENONE	532274		X	X			1.0	1+	
Chloroalkyl Ethers	CHLOROALKYL ETHERS	99999999		X	X			1.0	1+	
p-Chloroaniline	CHLOROANILINE	106478		X	X	X		1.0	100	P024
Chlorobenzene	CHLOROBENZENE	108907		X	X	X		1.0	100	U037
Chlorobenzilate	CHLOROBENZILATE	510156		X	X	X		1.0	10	U038
p-Chloro-cresol	CHLOROCRESOL	59807		X	X			5,000	U039	
Chlorodibromomethane	CHLORODIBROMOMETHANE	124481		X	X			1.0	100	
Chloroethane	CHLOROETHANE	75003		X	X			1.0	100	
Chloroethanol	CHLOROETHANOL	107073	X				500	1.0	1+	
Chloroethyl chloroformate	CHLOROETHYL CHLOROFORMATE	627112	X				1,000	1.0	1+	
2-Chloroethyl vinyl ether	CHLOROETHYL VINYL ETHER	110789		X	X	X		1.0	1,000	U042
Chloroform	CHLOROFORM	67663	X	X	X	X	10,000	0.1	10	U044
Chloromethane	CHLOROMETHANE	74873	X	X	X			1.0	100	U045
Chloromethyl methyl ether	CHLOROMETHYL METHYL ETHER	107302	X	X	X	X	100	0.1	10	U046
Chloromethyl ether	CHLOROMETHYL ETHER	542881	X	X	X	X	100	0.1	10	P016
2-Chloronaphthalene	CHLORONAPHTHALENE	91587		X	X			5,000	U047	
Chloropachione	CHLOROPACHIONE	3691358	X				100/10,000	1.0	1+	
2-Chlorophenol	CHLOROPHENOL	95578		X	X	X		1.0	100	U048
Chlorophenols	CHLOROPHENOLS	99999999		X	X			1.0	1+	
4-Chlorophenyl phenyl ether	CHLOROPHENYL PHENYL ETHER	7005723		X	X			5,000	U049	
Chloroprene	CHLOROPRENE	126598		X	X			1.0	1+	
3-Chloropropionitrile	CHLOROPROPIONITRILE	542757	X	X	X	X	1,000	1.0	1,000	P027
Chlorosulfonic acid	CHLOROSULFONIC ACID	7730945		X	X			1.0	1,000	
Chlorotetrafluoroethane	CHLOROTETRAFLUOROETHANE	63938103		X	X			1.0	10	
Chlorothalonil	CHLOROTHALONIL	1857456		X	X			1.0	10	
4-Chloro-o-toluidine, hydrochloride	CHLOROTOLUIDINE, HYDROCHLORIDE	3165933		X	X	X		100	U049	
Chloroxuron	CHLOROXURON	1962474	X				500/10,000	1.0	1+	
Chlorpyrifos	CHLORPYRIFOS	2921882		X	X			1.0	1	
Chlorthionfos	CHLORTHIONFOS	21923239	X				500	1.0	1+	
Chromic acetate	CHROMIC ACETATE	1066304		X	X			1,000	10	
Chromic acid	CHROMIC ACID	7738945		X	X			1.0	10	
Chromic acid	CHROMIC ACID	1115745		X	X			1.0	10	
Chromic chloride	CHROMIC CHLORIDE	10025737	X				1/10,000	1.0	1+	
Chromic sulfate	CHROMIC SULFATE	10101538		X	X			1.0	1,000	
Chromium	CHROMIUM	7440473		X	X			0.1	5,000*	
Chromium Compounds	CHROMIUM AND COMPOUNDS	99999999		X	X			1.0	1+	
Chromium chloride	CHROMIUM CHLORIDE	10049095		X	X			1.0	100	U050
Chryseine	CHRYSEINE	219019		X	X	X		1.0	100	
C.I. Acid Green 3	C.I.ACIDGREEN3	4680788		X	X			1.0	10	
C.I. Basic Green 4	C.I.BASICGREEN4	569642		X	X			1.0	10	
C.I. Basic Red 1	C.I.BASICRED1	989388		X	X			1.0	10	
C.I. Direct Black 38	C.I.DIRECTBLACK38	1537377		X	X			0.1	1+	
C.I. Direct Blue 6	C.I.DIRECTBLUE6	2602462		X	X			0.1	1+	
C.I. Direct Brown 95	C.I.DIRECTBROWN95	16071866		X	X			0.1	1+	
C.I. Disperse Yellow 3	C.I.DISPERSEYELLOW3	2532418		X	X			1.0	10	
C.I. Food Red 5	C.I.FOODRED5	3761533		X	X			0.1	1+	





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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CNS NUMBER (C)	EPCRA 302 (D)	EPCRA 313 (E)	CERCLA (F)	RCRA (G)	EPCRA 302 TPO (H)	Definimum Concent. (I)	NO (J)	RCRA CODE (K)
DEHP	DEHP	117817		X	X	X		0.1	100	U028
Demeton	DEMETON	8065483	X				500	0.1	1	
Demeton-S-methyl	DEMETON-S-METHYL	919868	X				500	0.1	1	
Dialifor	DIALIFOR	10311849	X				100/10,000	1.0	100	
Diallate	DIALLATE	2303164		X	X	X		1.0	1	U062
2,4-Diaminoisole	DIAMINOISOLE	615054		X				0.1	1	
2,4-Diaminoisole sulfate	DIAMINOISOLE SULF	39156417		X				0.1	1	
4,4'-Diaminodiphenyl ether	DIAMINODIPHENYL	101804		X				0.1	1	
Diaminotoluene	DIAMINOTOLUENE	496730			X	X		0.1	10	U021
Diaminotoluene	DIAMINOTOLUENE	623405			X	X		0.1	10	U021
2,4-Diaminotoluene	DIAMINOTOLUENE	95807		X	X			0.1	10	
Diaminotoluene (mixed isomers)	DIAMINOTOLUENEMIX	25321226		X	X	X		0.1	10	U021
Diazinon	DAZINON	333415		X				1.0	1	
Diazomethane	DIAZOMETHANE	334883		X	X			1.0	1*	
Dibenz[a,h]anthracene	DIENZANTHRACENE	53703		X	X	X		1.0	1	U063
Dibenzofuran	DIENCOFURAN	132649		X	X			1.0	1*	
Dibenz[a,i]pyrene	DIBENZPYRENE	189559		X	X	X		1.0	10	U064
Diborene	DIBORANE	19287457	X				100	1.0	1	
1,2-Dibromo-3-chloropropane	DIBROMOCHLORO	95128		X	X	X		0.1	1	U066
1,2-Dibromoethane	DIBROMOETHANE	106934		X	X	X		0.1	1	U067
Dibromotetrafluoroethane [Halon 2402]	DIBROMOTETRAFLUOROETHANE	124732		X	X	X		1.0	10	
Di-butyl phthalate	DI BUTYL PHTHALATE	64742		X	X	X		1.0	10	U069
Dicoma	DICOMA	191809		X				1.0	100	
Dichlobenil	DICHOLOBENIL	1194656		X				0.1	1	
Dichlone	DICHLONE	117806		X				1.0	1	
Dichloro-1,1,2-trifluoroethane	DICHLORO-1,1,2-TRIFLUOROETHANE	9045195		X	X	X		1.0	100	
o-Dichlorobenzene	DICHLOROBENZENE	95501		X	X	X		1.0	100	U070
Dichlorobenzene	DICHLOROBENZENE	25321226		X	X	X		0.1	100	
1,2-Dichlorobenzene	DICHLOROBENZENE	95501		X	X	X		1.0	100	U070
1,3-Dichlorobenzene	DICHLOROBENZENE	541731		X	X	X		1.0	100	U071
1,4-Dichlorobenzene	DICHLOROBENZENE	106467		X	X	X		0.1	100	U072
Dichlorobenzene (mixed isomers)	DICHLOROBENZENEMIX	25321226		X	X	X		0.1	100	U071
3,3'-Dichlorobenzidine	DICHLOROBENZIDIN	91941		X	X	X		0.1	1	U073
Dichlorobenzidine	DICHLOROBENZIDINE	99999999		X				**	**	
Dichlorobromomethane	DICHLOROBROMOMETHANE	540990		X	X	X		1.0	5,000	
trans-1,4-dichlorobutene	DICHLORODIFLUOROMETHANE	110576	X				500	1.0	5,000	
Dichlorodifluoromethane (CFC-12)	DICHLORODIFLUOROMETHANE	75718	X	X	X	X		1.0	5,000	U075
1,1-Dichloroethane	DICHLOROETHANE	75343		X	X	X		1.0	1,000	U076
1,2-Dichloroethane	DICHLOROETHANE	107052		X	X	X		0.1	100	U077
1,1-Dichloroethylene	DICHLOROETHYLENE	75354		X	X	X		1.0	100	U078
1,2-Dichloroethylene	DICHLOROETHYLENE	156605		X	X	X		1.0	1,000	U079
Dichloroethyl ether	DICHLOROETHYLETH	540990		X	X	X		1.0	10	
Dichloroisopropyl ether	DICHLORISOPROPYL ETHER	108601		X	X	X		1.0	1,000	U027
Dichloromethane	DICHLOROMETHANE	75352		X	X	X		0.1	1,000	U090
Dichloromethyl ether	DICHLORMETHYL ETHER	542851	X	X	X	X		1.0	0.1	10
Dichloromethylphenylsilane	DICHLORMETHYLPHENYLSILANE	149746	X				1,000	1.0	1	F016
2,6-Dichlorophenol	DICHLOROPHENOL	87650		X	X	X		1.0	100	U082
4,4-Dichlorophenol	DICHLOROPHENOL	120532		X	X	X		1.0	100	U081
Dichlorophenylarsine	DICHLOROPHENYLARSINE	696286	X	X	X	X		500	1.0	F036
1,2-Dichloropropane	DICHLOROPROPANE	78875		X	X	X		1.0	1,000	U083
Dichloropropane	DICHLOROPROPANE	2635197		X				1.0	1,000	
Dichloropropane - Dichloropropane (mixture)	DICHLOROPROPANE - DICHLOROPROPENE (MIXTURE)	8003198		X				1.0	100	
1,1-Dichloropropane	DICHLOROPROPANE-A	78999		X				1.0	1,000	
1,3-Dichloropropane	DICHLOROPROPANE-C	142289		X				5,000	100	
Dichloropropene	DICHLOROPROPENE	26952238		X				1.0	100	
1,3-Dichloropropene	DICHLOROPROPENE	542756		X	X	X		0.1	100	U084
2,3-Dichloropropene	DICHLOROPROPENE	78886		X	X			1.0	100	
2,3-Dichloropropionic acid	DICHLOROPROPIONIC ACID	78990		X				5,000	100	
1,3-Dichloropropylene	DICHLOROPROPYLEN	542756		X	X	X		0.1	100	U084
Dichlorotetrafluoroethane (CFC-114)	DICHLOROTETRAFLUOROETHANE	76142		X				1.0	1	
Dichlorotrifluoroethane	DICHLOROTRIFLUOROETHANE	3407877		X				1.0	1	
Dichlorvos	DICHLORVOS	62737	X	X	X			1,000	1.0	10
Dicofol	DICOFOL	115322	X	X	X			1.0	1.0	10
Dicrotophos	DICROTOPHOS	141662	X					1.0	1.0	1
Dieldrin	DIELDRIN	60571		X	X	X		100	1.0	F037
Diisopropylamine	DIISOPROPYLAMINE	1464535	X	X	X	X		500	0.1	10
Diethanolamine	DIETHANOLAMINE	111422		X	X			1.0	1*	U085
Diethylamine	DIETHYLAMINE	100857		X				1.0	1,000	
Diethylarsine	DIETHYLARSINE	692422		X	X	X		1.0	1	F038
Diethylcarbamazine citrate	DIETHYL CARBAMAZINE CITRATE	1642542	X				100/10,000	1.0	1	
Diethyl chlorophosphate	DIETHYLCHLOROPHOSPHATE	614493	X				500	1.0	1	
Di(2-ethylhexyl) phthalate	DIETHYLHEXYLPHT	117817		X	X	X		0.1	100	U028
Diethyl-p-nitrophenyl phosphate	DIETHYL P-NITROPHENYL PHOSPHATE	311455		X	X	X		1.0	100	F041
Diethyl phthalate	DIETHYL PHTHALATE	84662		X	X	X		1.0	1,000	U086
O,O-Diethyl O-pyrazinyl phosphorothioate	DIETHYL PYRAZINYL PHOSPHOROTHIOATE	297972	X	X	X	X		500	1.0	F040

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA				EPCRA 302 TPO (H)	DeMinimus Concent. (I)	ROD (J)	ROA CODE (K)
			302 (D)	313 (E)	CERCLA (F)	ROA (G)				
Diethylstilbestrol	DIETHYLSTILBESTROL	56631			X	X			1	U089
Diethyl sulfate	DIETHYLSULFATE	64675		X	X	X		0.1	1+	
Digitoxin	DIGITOXIN	71636	X				100/10,000		1	
Diglycidyl ether	DIGLYCIDYL ETHER	228275							1	
Digoxin	DIGOXIN	20630755	X				10/10,000		1	
Dihydroafrrole	DIHYDROAFROLE	94986		X	X	X		0.1	10	U090
Diisopropyl fluorophosphate	DIISOPROPYLFLUOROPHOSPHATE	55514	X		X	X		100	10	F043
Dimefox	DIMEFOX	115254	X					500	1	
Dimethoate	DIMETHOATE	60615	X		X	X	500/10,000		10	F044
3,3'-Dimethoxybenzidine	DIMETHOXYBENZID	119904		X	X	X		0.1	100	U091
Dimethylamine	DIMETHYLAMINE	124403		X	X	X		1,000	10	U092
4-Dimethylaminooxobenzene	DIMETHYLAMINOAZO	60117		X	X	X		0.1	10	U093
Dimethylaminoazobenzene	DIMETHYLAMINOAZOBENZENE	60117		X	X	X		0.1	10	U093
N,N-Dimethylaniline	DIMETHYLANILINE	121697		X	X	X		1.0	1+	
7,12-Dimethylbenz[a]anthracene	DIMETHYLBENZANTRACENE	57976		X	X	X		0.1	10	U094
3,3'-Dimethylbenzidine	DIMETHYLBENZIDID	119937		X	X	X		0.1	10	U095
Dimethylcarbamoyl chloride	DIMETHYLCARBAMYL	79447	X	X	X	X		0.1	1	U097
Dimethyldichlorosilane	DIMETHYLDICHLOROSILANE	75785	X				500		1	
Dimethylformamide	DIMETHYLFORMAMIDE	68122			X	X			1+	
1,1-Dimethyl hydrazine	DI-METHYLHYDRAZ	57147	X	X	X	X	1,000	0.1	10	U098
Dimethylhydrazine	DIMETHYLHYDRAZINE	57147	X	X	X	X		0.1	10	U098
2,4-Dimethylphenol	DIMETHYLPHENOL	105679		X	X	X		1.0	100	U101
Dimethyl-p-phenylenediamine	DIMETHYLPHENYLENEDIAMINE	93989	X				10/10,000		1	
Dimethyl phosphorochlorodithioate	DIMETHYLPHOSPHOROCHLORODITHIOATE	234630	X				500		10	F047
Dimethyl phthalate	DIMETHYLPHthalate	131113		X	X	X		1.0	5,000	U102
Dimethyl sulfate	DIMETHYLSULFATE	77781	X	X	X	X	500	0.1	100	U103
Diethylam	DIETHYLENE	64464	X				500/10,000		1	
Dinitrobenzene (mixed isomers)	DINITROBENZENE (MIXED)	25154545			X	X			100	
m-Dinitrobenzene	DINITROBENZENE	99650		X	X	X		1.0	100	
o-Dinitrobenzene	DINITROBENZENE	535290		X	X	X		1.0	100	
p-Dinitrobenzene	DINITROBENZENE	100264		X	X	X		1.0	100	
4,6-Dinitro-o-cresol	DINITROCREOSOL	534521	X	X	X	X	10/10,000	1.0	10	F047
Dinitroresorcinol	DINITRORESOL	534521	X	X	X	X	10/10,000	1.0	10	F047
4,6-Dinitro-p-cresol and salts	DINITROCREOSOL AND SALTS	534521	X	X	X	X		1.0	10	F047
Dinitrophenol	DINITROPHENOL	25550587		X	X	X			10	
2,4-Dinitrophenol	DINITROPHENOL	51285		X	X	X		1.0	10	F048
2,5-Dinitrophenol	DINITROPHENOL	329715		X	X	X			10	
2,6-Dinitrophenol	DINITROPHENOL	573568		X	X	X			10	
Dinitrotoluene (mixed isomers)	DINITROTOLUENE	25321146		X	X	X		1.0	10	
2,4-Dinitrotoluene	DINITROTOLUENE	121142		X	X	X		1.0	10	U105
2,6-Dinitrotoluene	DINITROTOLUENE	606202		X	X	X		1.0	100	U106
3,4-Dinitrotoluene	DINITROTOLUENE	610399		X	X	X		1.0	10	
Dinoseb	DINOSB	88857	X		X	X	100/10,000		1,000	F020
Dinoseb	DINOSB	142077	X		X	X	50/10,000		1,000	
Di-n-octyl phthalate	DIOCTYLPHthalate	117840		X	X	X		1.0	5,000	U107
n-Dioctylphthalate	DIOCTYLPHthalate	117840		X	X	X		1.0	5,000	U107
1,4-Dioxane	DIOXANE	123911		X	X	X		0.1	100	U108
Dioxathion	DIOXATHION	78342	X				500		1	
Diphacifone	DIPHACIFONE	82666	X				10/10,000		1	
1,2-Diphenylhydrazine	DIPHENYLHYDRAZ	122667		X	X	X		0.1	10	U109
Diphenylhydrazine	DIPHENYLHYDRAZINE	99999999		X	X	X			**	
Diphosphoramide, octamethyl-	DIPHOSPHORAMIDE, OCTAMETHYL-	152169	X				100		100	F085
Dipropylamine	DIPROPYLAMINE	142847		X	X	X			5,000	U110
Diquat	DICUAT	85007		X					1,000	
Diquat	DICUAT	2764729		X					1,000	
Disulfoton	DISULFOTON	298044	X		X	X	500		1	F039
Dithiazosine iodide	DITHIAZOSINE IODIDE	514736	X				500/10,000		1	
Dithioburet	DITHIOBURET	541537	X		X	X	100/10,000		100	F049
O,O-Diethyl S-methyl dithiophosphate	DITHIOPHOSPHATE	3288562		X	X	X		5,000	100	U087
Duron	DURON	336541		X					100	
Dodecylbenzenesulfonic acid	DODECYLBENZENESULFONIC ACID	2716870		X					1,000	
Emetine, dihydrochloride	EMETINE, DIHYDROCHLORIDE	316427	X				1/10,000		1	
Endosulfan	ENDOSULFAN	115297	X		X	X	10/10,000		1	F050
alpha - Endosulfan	ENDOSULFAN	669988		X					1	
beta - Endosulfan	ENDOSULFAN	33213659		X					1	
Endosulfan and Metabolites	ENDOSULFAN AND METABOLITES	99999999		X					**	
Endosulfan sulfate	ENDOSULFAN SULFATE	1031078		X					1	
Endothall	ENDOTHALL	145733		X	X	X	500/10,000		1,000	F088
Endothion	ENDOTHION	2778043	X				500/10,000		1	
Endrin	ENDRIN	72206	X				500/10,000		1	
Endrin aldehyde	ENDRIN ALDEHYDE	7421534		X	X	X			1	F051
Endrin and Metabolites	ENDRIN AND METABOLITES	99999999		X					**	
Epichlorohydrin	EPICHLOROHYDRIN	106896	X	X	X	X	1,000	0.1	100	U041
Ethephrine	ETHEPHRINE	51494		X	X	X			1,000	F042
EPN	EPN	2104645	X				100/10,000		1	
Ergocalciferol	ERGOCALCIFEROL	50146	X				1,000/10,000		1	

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA EPCRA					EPCRA 302 TQ (H)	Definition Concent. (I)	RQ (J)	RCRA CODE (K)
			302 (D)	313 (E)	CERCLA (F)	RCRA (G)					
Ergotamine tartrate	ERGOTAMINE TARTRATE	379793	X				500/10,000		1		
Ethanesulfonyl chloride, 2-chloro-	ETHANESULFONYL CHLORIDE, 2-CHLORO-	162238	X				500		1		
Ethane, 1,1,1,2-tetrachloro-	ETHANETETRACHLORO-	53026	X	X	X	X		1.0	100	U208	
Ethanedithioic acid, N-[[methylamino]carbonyl]	ETHANEDITHIOIC ACID, N-[[METHYLAMINO]CARBONYL]	1675275	X	X	X	X	500/10,000		100	P066	
Ethanol, 1,2-dichloro-, acetate	ETHANOL, 1,2-DICHLORO-, ACETATE	10140871	X	X	X		1,000		1		
Ethanol, 2-ethoxy-	ETHANOL, 2-ETHOXY-	11896	X	X	X	X	1,000	1.0	1,000	U559	
Ethion	ETHION	563122	X	X	X		1,000		10		
Ethoxyprophos	ETHOXYPROPHOS	13194484	X				2,000		1		
2-Ethoxyethanol	ETHOXYETHANOL	11896	X	X	X	X	1,000	1.0	1,000	U559	
Ethyl acetate	ETHYLACETATE	141786	X	X	X	X			5,000	U112	
Ethyl acrylate	ETHYLACRYLATE	140885	X	X	X	X			0.1	1,000	
Ethylbenzene	ETHYLBENZENE	100814	X	X	X				1.0	1,000	
Ethylbis(2-chloroethyl)amine	ETHYLBIS(2-CHLOROETHYL)AMINE	838078	X				500		1		
Ethyl carbamate	ETHYL CARBAMATE	51796	X	X	X	X			0.1	100	
Ethyl chloride	ETHYLCHLORIDE	5003	X	X	X				1.0	100	
Ethyl chloroformate	ETHYLCHLOROFORMATE	841413	X						1.0		
Ethyl cyanide	ETHYLCYANIDE	107120	X	X	X	X	500		10	P101	
Ethylene	ETHYLENE	74851	X	X	X	X			1.0		
Ethylenebis(dithiocarbamic acid, salts & esters)	ETHYLENEBIS(DITHIOCARBAMIC ACID, SALTS & ESTERS)	111546	X	X	X	X			5,000	U114	
Ethyleneimine	ETHYLENEIMINE	107153	X	X	X		10,000		5,000		
Ethyleneimine-tetraacetic acid (EDTA)	ETHYLENEIMINE-TETRAACETIC ACID (EDTA)	60004	X	X	X	X			5,000		
Ethylene dibromide	ETHYLENEBROMIDE	106934	X	X	X	X			0.1	1,000	
Ethylene dichloride	ETHYLENEDICHLORIDE	107062	X	X	X	X			0.1	100	
Ethylene fluorohydrin	ETHYLENEFLUOROHYDRIN	371620	X	X	X	X	10		1		
Ethylene glycol	ETHYLENEGLYCOL	107211	X	X	X	X			1.0	1	
Ethyleneimine	ETHYLENEIMINE	151564	X	X	X	X	500	1.0	1	P054	
Ethylene oxide	ETHYLENEOXIDE	75218	X	X	X	X	1,000	0.1	10	U115	
Ethylene thiourea	ETHYLENETHIUREA	6457	X	X	X	X			0.1	100	
Ethyl acetone	ETHYLACETONE	6257	X	X	X				100	U117	
Ethyl methacrylate	ETHYL METHACRYLATE	97632	X	X	X				1,000	U118	
Ethyl methanesulfonate	ETHYL METHANESULFONATE	82500	X	X	X				1	U119	
Ethylthiocyanate	ETHYLTHIOCYANATE	84798	X	X	X		10,000		1		
Famphur	FAMPHUR	52857	X	X	X	X			1,000	P097	
Fenampfos	FENAMPFOS	2224926	X				10/10,000		1		
Fenitrothion	FENITROTHION	122145	X				500		1		
Fensulfothion	FENSULFOTHION	115902	X				500		1		
Ferric ammonium citrate	FERRICAMMONIUMCITRATE	118575	X	X	X				1,000		
Ferric ammonium oxalate	FERRICAMMONIUMOXALATE	2944674	X	X	X				1,000		
Ferric ammonium sulfate	FERRICAMMONIUMSULFATE	5548874	X	X	X				1,000		
Ferric chloride	FERRICCHLORIDE	770580	X	X	X				1,000		
Ferric fluoride	FERRICFLUORIDE	778506	X	X	X				100		
Ferric nitrate	FERRICNITRATE	10421484	X	X	X				1,000		
Ferric sulfate	FERRICSULFATE	10028225	X	X	X				1,000		
Ferrous ammonium sulfate	FERROUSAMMONIUM SULFATE	10045893	X	X	X				1,000		
Ferrous chloride	FERROUSCHLORIDE	7758943	X	X	X				100		
Ferrous sulfate	FERROUSULFATE	7720787	X	X	X				1,000		
Ferrous sulfate	FERROUSULFATE	772630	X	X	X				1,000		
Flumetol	FLUMETOL	430152	X	X	X		100/10,000		1		
Fluometuron	FLUOMETURON	2164172	X	X	X			1.0		U120	
Fluoranthene	FLUORANTHENE	206440	X	X	X	X			100		
Fluorene	FLUORENE	86737	X	X	X	X			5,000		
Fluorine	FLUORINE	7782414	X	X	X	X	500		10	P056	
Fluoroacetamide	FLUOROACETAMIDE	640197	X	X	X	X	100/10,000		100	P057	
Fluoroacetic acid	FLUOROACETIC ACID	144490	X	X	X		10/10,000		1		
Fluoroacetic acid, sodium salt	FLUOROACETIC ACID, SODIUM SALT	62748	X	X	X	X	10/10,000		10	P058	
Fluoroacetyl chloride	FLUOROACETYL CHLORIDE	959068	X	X	X		10		1		
Fluorouracil	FLUOROURACIL	51218	X	X	X		500/10,000		1		
Fonofos	FONOFOS	944229	X				500		1		
Formaldehyde	FORMALDEHYDE	50000	X	X	X	X	500	0.1	100	U122	
Formaldehyde cyanohydrin	FORMALDEHYDE CYANOHYDRIN	107154	X	X	X		1,000		1		
Formetanate hydrochloride	FORMETANATE HYDROCHLORIDE	2342259	X				500/10,000		1		
Formic acid	FORMIC ACID	64186	X	X	X	X		1.0	5,000	U123	
Formothion	FORMOTHION	2540821	X	X	X		100		1		
Formparanate	FORMPARANATE	1702577	X	X	X		100/10,000		1		
Formthiatan	FORMTHIATAN	21548323	X	X	X		500		1		
Freon 113	PERFLUOROTRIFLUOROMETHANE	76131	X	X	X		100/10,000	1.0	1		
Fuberidazole	FIBERIDAZOLE	3870191	X				100/10,000		1		
Fumaric acid	FUMARIC ACID	110178	X	X	X				5,000		
Furam	FURAM	110009	X	X	X	X	500		100	U124	
Furam, tetrahydro-	FURAN, TETRAHYDRO-	109999	X	X	X				1,000	U125	
Furfural	FURFURAL	98011	X	X	X				5,000	U126	
Gallium trichloride	GALLIUM TRICHLORIDE	13450903	X	X	X		500/10,000		1		
D-Glucose, 2-deoxy-2-[[methylnitrosamino]-carbo-	GLUCOSE, 2-DEOXY-2-[[METHYLNITROSAMINO]-CARBO-	18888654	X	X	X				1		
Glycidylaldehyde	GLYCIDYLALDEHYDE	765344	X	X	X				10	U126	
Glycol Ethers	GLYCOL ETHERS	99999999	X	X	X			**	1+		
Guanidine, N-methyl-N'-nitro-N-nitroso-	GUANIDINE, N-METHYL-N'-NITRO-N-NITROSO-	70237	X	X	X				10	U163	

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CNS NUMBER (C)	EPCRA 302 (D)	EPCRA 313 (E)	CERCLA (F)	RCRA (G)	EPCRA 302 TPG (H)	Definition Concent. (I)	PG (J)	RCRA CODE (K)
Guthion	GUTHION	86500	X		X		10/10,000			
Haloethers	HALOETHERS	99999999	X		X				**	
Haloethanes	HALOETHANES	99999999	X		X				**	
Halon 1211	HALON1211	353593		X					1.0	
Halon 1301	HALON1301	75638		X					1.0	
Halon 2402	HALON2402	124732		X					1.0	
2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123)	HCFC-123	306832		X					1.0	
HCFC-123	HCFC-123	306832		X					1.0	
1,2-Dichloro-1,1,1,2-trifluoroethane (HCFC-123a)	HCFC-123a	354234		X					1.0	
HCFC-123a	HCFC-123a	354234		X					1.0	
1,1-Dichloro-1,1,2-trifluoroethane (HCFC-123b)	HCFC-123b	812044		X					1.0	
HCFC-123b	HCFC-123b	812044		X					1.0	
2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	HCFC-124	2837890		X					1.0	
HCFC-124	HCFC-124	2837890		X					1.0	
1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	HCFC-124a	354256		X					1.0	
HCFC-124a	HCFC-124a	354256		X					1.0	
1,1-Dichloro-1-fluoroethane (HCFC-141b)	HCFC-141b	1717006		X					1.0	
HCFC-141b	HCFC-141b	1717006		X					1.0	
1-Chloro-1,1-difluoroethane (HCFC-142b)	HCFC-142b	75683		X					1.0	
HCFC-142b	HCFC-142b	75683		X					1.0	
Chlorodifluoromethane (HCFC-22)	HCFC-22	75456		X					1.0	
HCFC-22	HCFC-22	75456		X					1.0	
Heptachlor	HEPTACHLOR	76448		X	X	X			1.0	F059
Heptachlor and Metabolites	HEPTACHLOR AND METABOLITES	99999999		X	X	X			1.0	F059
Heptachlor epoxide	HEPTACHLOR EPOXIDE	104873		X	X	X			1.0	F059
Hexachlorobenzene	HEXACHLOROBENZENE	118741		X	X	X		0.1	1.0	U127
Hexachloro-1,3-butadiene	HEXACHLOROBUTADIENE	87683		X	X	X		1.0	1.0	U128
Hexachlorobutadiene	HEXACHLOROBUTADIENE	87683		X	X	X		1.0	1.0	U128
Hexachlorocyclopentadiene	HEXACHLOROCYCLOPENTADIENE	77474	X	X	X	X	100	1.0	1.0	U130
Hexachlorocyclohexane (all isomers) CAS 608-73-1	HEXACHLOROCYCLOHEXANE	99999999		X	X	X	1,000/10,000	0.1	1.0	U129
Hexachlorocyclohexane (gamma isomer)	HEXACHLOROCYCLOHEXANE (GAMMA ISOMER)	67721	X	X	X	X		1.0	1.0	U131
Hexachlorocyclohexane (gamma isomer)	HEXACHLOROCYCLOHEXANE (GAMMA ISOMER)	67721	X	X	X	X		1.0	1.0	U131
Hexachloronaphthalene	HEXACHLORONAPHTHALENE	1335871		X	X	X		1.0	1.0	U132
Hexachlorophene	HEXACHLOROPHENE	188817		X	X	X		1.0	1.0	U243
Hexachloropropene	HEXACHLOROPROPENE	70304		X	X	X		1.0	1.0	U243
Hexaethyl tetraphosphate	HEXAETHYL TETRAPHSOPHATE	757584		X	X	X		1.0	1.0	F062
Hexamethylene-1,6-diisocyanate	HEXAMETHYLENE DIISOCYANATE	822060		X	X	X	500		1.0	
Hexamethylenediamine, N,N'-dibutyl-	HEXAMETHYLENEDIAMINE, N,N'-DIBUTYL-	483514	X		X				1.0	
Hexamethylphosphoramide	HEXAMETHYLPHOSPHORAMIDE	680319		X	X	X		0.1	1.0	
Hexane	HEXANE	110645		X	X	X		1.0	1.0	U133
Hydrazine	HYDRAZINE	302012	X	X	X	X	1,000	0.1	1.0	U086
Hydrazine, 1,2-diethyl-	HYDRAZINEDIETHYL-	1615801		X	X	X		1.0	1.0	U099
Hydrazine, 1,1-dimethyl-	HYDRAZINEDIMETHYL-	57147	X	X	X	X	1,000	0.1	1.0	U109
Hydrazine, 1,2-dimethyl-	HYDRAZINEDIMETHYL-	540738		X	X	X		1.0	1.0	U109
Hydrazine, 1,2-diphenyl-	HYDRAZINEDIPHENYL-	122667		X	X	X		0.1	1.0	U109
Hydrazine sulfate	HYDRAZINESULFATE	10034932		X	X	X		0.1	1.0	U109
Hydrazobenzene	HYDRAZOBENZENE	122667		X	X	X		1.0	5,000	
Hydrochloric acid	HYDROCHLORIC ACID	7647010		X	X	X		100	1.0	F063
Hydrocyanic acid	HYDROCYANIC ACID	74908	X	X	X	X	100	1.0	100	U134
Hydrofluoric acid	HYDROFLUORIC ACID	7664593	X	X	X	X	100	1.0	100	U134
Hydrogen chloride (gas only)	HYDROGEN CHLORIDE (Gas Only)	7647010	X	X	X	X	500	1.0	5,000	
Hydrogen cyanide	HYDROGEN CYANIDE	74908	X	X	X	X	100	1.0	100	F063
Hydrogen fluoride	HYDROGEN FLUORIDE	7664593	X	X	X	X	100	1.0	100	U134
Hydrogen peroxide (conc. > 52%)	HYDROGEN PEROXIDE (Conc. > 52%)	772841	X		X			1.0	1.0	
Hydrogen selenide	HYDROGEN SELENIDE	7783075	X		X			1.0	1.0	U135
Hydrogen sulfide	HYDROGEN SULFIDE	7783064	X	X	X	X	500	1.0	100	U096
Hydroperoxide, 1-methyl-1-phenylethyl-	HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL-	80189		X	X	X	500/10,000	1.0	1.0	U137
Hydroquinone	HYDROQUINONE	123319	X	X	X	X		1.0	1.0	
Indeno(1,2,3-cd)pyrene	INDENO(1,2,3-CD)PYRENE	193295		X	X	X		100	100	
Iron, pentacarbonyl-	IRON, PENTACARBONYL-	19463406		X				100	10,000	
Isobutane	ISOBUTANE	297789	X				100/10,000		1.0	
Isobutyl alcohol	ISOBUTYL ALCOHOL	78831		X	X	X		1.0	5,000	U140
Isobutyraldehyde	ISOBUTYRALDEHYDE	78842		X	X	X		1.0	1.0	
Isobutyronitrile	ISOBUTYRONITRILE	78820	X				1,000		1.0	
Isocyanic acid, 3,4-dichlorophenyl ester	ISOCYANIC ACID, 3,4-DICHLOROPHENYL ESTER	102263	X				500/10,000		1.0	F060
Isodrin	ISODRIN	465736		X	X	X	100/10,000		1.0	F043
Isodrin	ISODRIN	465736		X	X	X	100		1.0	F043
Isophosphate	ISOPHOSPHATE	78591		X	X	X		1.0	5,000	
Isophorone	ISOPHORONE	78591		X	X	X		1.0	1.0	
Isophorone diisocyanate	ISOPHORONE DIISOCYANATE	4098719	X		X				1.0	
Isoprene	ISOPRENE	78795		X	X	X			1.0	
Isopropylamine dodecylbenzene sulfonate	ISOPROPANILAMINE DODECYLBENZENE SULFONATE	42504461		X	X	X			0.1	1.0
Isopropyl alcohol (mfg-strong acid process)	ISOPROPYLALCOHOL	67630		X	X	X	1,000		1.0	
Isopropyl chloroformate	ISOPROPYLCHLOROFORMATE	104636	X						1.0	
4,4'-Isopropylidenediphenol	ISOPROPYLIDENEDIPHENOL	80057		X	X	X			1.0	
Isopropylmethylpyrazolyl dimethylcarbonate	ISOPROPYLMETHYLPIYRAZOLYL DIMETHYLCARBAMATE	119380	X		X	X	500		1.0	U141
Isosafrole	ISOSAFROLE	120581		X	X	X			1.0	100

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ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302 (D)	EPCRA 313 (E)	CERCLA (F)	RCRA (G)	EPCRA 302 TPO (H)	Definition Concent. (I)	NO (J)	RCRA CODE (K)
5-(Aminoethyl)-3-isoxazolol	ISORAZOLOL	2763964	X		X	X	500/10,000		1,000	P007
Kepon	KEPONE	143600			X	X				U142
Lactonitrile	LACTONITRILE	78577	X				1,000			
Lasiocarpine	LASIOCARPINE	303344		X	X	X			10	U143
Lead	LEAD	7439921		X	X			0.1	**	1*
Lead Compounds	LEAD COMPOUNDS	9999999		X	X					
Lead acetate	LEADACETATE	301042				X			5,000	U144
Lead arsenate	LEADARSENATE	7645252				X			1	
Lead arsenite	LEADARSENITE	7784409				X			1	
Lead arsenite	LEADARSENITE	10102484				X			1	
Lead chloride	LEADCHLORIDE	7783954				X			100	
Lead fluoroborate	LEADFLUORBORATE	13614965				X			100	
Lead fluoride	LEADFLUORIDE	7783462				X			100	
Lead iodide	LEADIODIDE	10101630				X			100	
Lead nitrate	LEADNITRATE	10099748				X			100	
Lead phosphata	LEADPHOSPHATE	7446277				X				U145
Lead stearate	LEADSTEARATE	1072351				X			5,000	
Lead stearate	LEADSTEARATE	7428480				X			5,000	
Lead stearate	LEADSTEARATE	52652592				X			5,000	
Lead stearate	LEADSTEARATE	5618934				X			5,000	
Lead subacetate	LEADSUBACETATE	1335326				X			100	U146
Lead sulfate	LEADSULFATE	7446142				X			100	
Lead sulfate	LEADSULFATE	1573987				X			100	
Lead sulfide	LEADSULFIDE	1314870				X			5,000	
Lead thiocyanate	LEADTHIOCYANATE	392870				X			100	
Lepidose	LEPIDOSE	2162955	X				500/10,000			
Lewisite	LEWISITE	541253	X				10		1	
Lindane	LINDANE	58899	X	X	X	X	1,000/10,000	0.1	1	U125
Lithium chromate	LITHIUM CHROMATE	14337368	X						1	
Lithium hydride	LITHIUM HYDRIDE	7580678	X				100		1	
Malathion	MALATHION	121755			X				100	
Maleic acid	MALICACID	110167			X				5,000	
Maleic anhydride	MALEICANHYDRIDE	106316		X	X	X		1.0	5,000	U147
Maleic hydrazide	MALEICHYDRAZIDE	123331		X	X	X			5,000	U148
Malonitrile	MALONITRILE	109773	X	X	X	X	500/10,000	1.0	1,000	U149
Manganese	MANGANESE	12427382			X			1.0		
Manganese Compounds	MANGANESE COMPOUNDS	99999999			X			**	**	1*
Manganese Compounds	MANGANESE COMPOUNDS	99999999			X			**	**	1*
Manganese, tricarbonyl methylcyclopentadienyl	MANGANESE, TRICARBONYL METHYLCYCLOPENTADIENYL	12108133	X				100		1	
MEI	MEI	101688		X	X	X		1.0	1*	
MEOCA	MEOCA	101144	X	X	X	X		0.1	10	U158
Mechlorethamine	MECHLORETHAMINE	51752	X	X			10	0.1	1	
Melphalan	MELPHALAN	148823		X	X	X			1	U150
Mepfosolan	MEPHOSOLAN	350107	X				500		1	
Mercaptopimethur	MERCAPTODIMETHUR	2032657	X		X		500/10,000		10	
Mercuric acetate	MERCURICACETATE	1600277	X				500/10,000		1	
Mercuric chloride	MERCURICHLORIDE	7487947	X				500/10,000		1	
Mercuric cyanide	MERCURICYANIDE	592041			X				1	
Mercuric nitrate	MERCURIONITRATE	10045940			X				10	
Mercuric oxide	MERCURIOXIDE	21908632	X				500/10,000		1	
Mercuric sulfate	MERCURICUSULFATE	7783359			X				10	
Mercuric thiocyanate	MERCURITHIOCYANATE	592858			X				10	
Mercurous nitrate	MERCUROUSNITRATE	7782867			X				10	
Mercurous nitrate	MERCUROUSNITRATE	10415755			X				10	
Mercury	MERCURY	7439976		X	X	X		1.0	10	U151
Mercury Compounds	MERCURY COMPOUNDS	99999999		X	X			**	**	1*
Mercury fulminate	MERCURY FULMINATE	528884			X	X			10	P065
Methacrolein diacetate	METHACROLEIN DIACETATE	10476564	X				1,000		1	
Methacrylic anhydride	METHACRYLIC ANHYDRIDE	760930	X				500		1	
Methacrylonitrile	METHACRYLONITRILE	126987	X		X	X	500		1,000	U152
Methacryloyl chloride	METHACRYLOYL CHLORIDE	920467	X				100		1	
Methacryloyloxyethyl isocyanate	METHACRYLOYLOXYETHYL ISOCYANATE	30674807	X				100		1	
Methamidophos	METHAMIDOPHOS	10265926	X				100/10,000		1	
Methanamine, N-methyl-N-nitroso-	METHANAMINE, N-METHYL-N-NITROSO-	52759	X	X	X	X	1,000	0.1	10	P082
Methanesulfonyl fluoride	METHANESULFONYL FLUORIDE	558258	X				1,000		1	
Methanol	METHANOL	67561		X	X	X		1.0	5,000	U154
Methacrylonitrile	METHACRYLONITRILE	91805		X	X	X			5,000	U155
Methidathion	METHIDATHION	983378	X				500/10,000		1	
Methiocarb	METHIOCARB	2032657	X		X		500/10,000		10	
Methonyl	METHONYL	16752775	X		X	X	500/10,000		100	P066
Methoxychlor	METHOXYCHLOR	72435		X	X	X		1.0	1	U247
2-Methoxyethanol	METHOXYETHANOL	109864						1.0	1	
Methoxyethylmercuric acetate	METHOXYETHYL MERCURIC ACETATE	151382	X	X			500/10,000		1	
Methyl acrylate	METHYLACRYLATE	96333							1	
Methyl bromide	METHYLBROMIDE	74839	X	X	X	X	1,000	1.0	1,000	U025

All EPCRA 302/313 and CERCLA Chemicals

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302 (D)	EPCRA 313 (E)	CERCLA (F)	RCRA (G)	EPCRA 302 TYP (H)	Default Concent. (I)	RD (J)	RCRA CODE (K)
Methyl chloride	METHYLCHLORIDE	74873		X	X	X				U045
Methyl 2-chloroacrylate	METHYLCHLOROACRYLATE	89637	X	X	X	X				
Methyl chloroform	METHYLCHLOROFORM	71556		X	X	X	500	1.0	1000	U226
Methyl chloroformate	METHYLCHLOROFORMATE	79221	X	X	X	X	500	1.0	1000	U156
3-Methylcholanthrene	METHYLCHOLANTHRENE	76495		X	X	X				U157
4,4'-Methylenebis(2-chloroaniline)	METHYLENEBIS(2-CHLOROANILINE)	101144		X	X	X				U158
4,4'-Methylenebis(N,N-dimethyl)benzenamine	METHYLENEBISDIETHYLAMINE	101611		X	X	X				
Methylenebis(phenylisocyanate)	METHYLENEBISPHENYLISOCYANATE	101688		X	X	X				
Methylene bromide	METHYLENEBROMIDE	74953		X	X	X				U068
Methylene chloride	METHYLENECHLORIDE	75092		X	X	X				U080
4,4'-Methylenedianiline	METHYLENEDIANILINE	101779		X	X	X				
Methyl ethyl ketone	METHYLETHYLKETONE	78933		X	X	X				U159
Methyl ethyl ketone (MEK)	METHYLETHYLKETONE (MEK)	78933		X	X	X				
Methyl ethyl ketone peroxide	METHYLETHYLKETONEPEROXIDE	1338234		X	X	X				U160
Methyl hydrazine	METHYLHYDRAZINE	63344	X	X	X	X	500	1.0	10	P068
Methyl iodide	METHYL IODIDE	74884		X	X	X				U159
Methyl isobutyl ketone	METHYLISOBUTYLKETONE	108101		X	X	X				U161
Methyl isocyanate	METHYLISOCYANATE	624839	X	X	X	X	500	1.0	1	P064
Methyl isothiocyanate	METHYLISOTHIOCYANATE	545616		X	X	X				
Methyl mercaptan	METHYL MERCAPTAN	74931	X	X	X	X	500	1.0	100	U153
Methylmercuric dicyanamide	METHYL MERCURIC DICYANAMIDE	502396	X	X	X	X	500/10,000	1.0	1,000	U162
Methyl methacrylate	METHYL METHACRYLATE	80626		X	X	X				
Methyl parathion	METHYL PARATHION	298000	X	X	X	X	100/10,000	1.0	100	P071
Methyl phenkepton	METHYLPHENKEPTON	3735237	X				500			
Methyl phosphonic dichloride	METHYLPHOSPHONIC DICHLORIDE	676971	X				100			
Methyl tert-butyl ether	METHYL TERT-BUTYL ETHER	1634044		X	X	X				1
Methyl thiocyanate	METHYLTHIOCYANATE	556649	X				10,000			
Methyl thioacetate	METHYLTHIOACETATE	75153		X	X	X				U164
Methyltrichlorosilane	METHYLTRICHLOROSILANE	675796		X	X	X	500			
Methyl vinyl ketone	METHYL VINYL KETONE	78944	X				10			
Metolcarb	METOLCARB	1129415	X				100/10,000			
Mevipiros	MEVAPIROS	778534		X	X	X	500			
Mexcarbata	MEXCARBATE	315184	X				500/10,000			1,000
Nichlar s ketone	NICHLERSKETONE	90948		X	X	X		0.1		1+
Pine mineral fibers	NITROLFIBERS	9999999		X	X	X				1+
Mitomycin C	MITOMYCIN C	50077	X	X	X	X	500/10,000			U010
Molybdenum trioxide	MOLYBDENUMTRIOXIDE	1313275		X	X	X		1.0		
Monochloropentafluoroethane [CFC-115]	MONOCHLOROPENTAFLUOROETHANE	76153		X	X	X		1.0		
Monocrotophos	MONOCROTOPHOS	6923224	X				10/10,000			1
Monomethylamine	MONOMETHYLAMINE	75047		X	X	X				100
Monomethylamine	MONOMETHYLAMINE	74895		X	X	X				100
Muscimol	MUSCIMOL	2763964	X	X	X	X	500/10,000			P007
Mustard gas	MUSTARD GAS	505602	X	X	X	X	500	0.1		1
Naled	NALD	300785		X	X	X				15
Naphthalene	NAPHTHALENE	91203		X	X	X		1.0		U165
Naphthelic acid	NAPHTHENTIC ACID	1338245		X	X	X				100
1,4-Naphthoquinone	NAPHTHOQUINONE	130154		X	X	X				5,000
alpha-Naphthylamine	NAPHTHYLAMINE	134327		X	X	X				0.1
beta-Naphthylamine	NAPHTHYLAMINE	91598		X	X	X				10
Nickel	NICKEL	7440020		X	X	X				0.1
Nickel compounds	NICKEL AND COMPOUNDS	9999999		X	X	X				100*
Nickel ammonium sulfate	NICKELAMMONIUM SULFATE	15699180		X	X	X				**
Nickel carbonyl	NICKEL CARBONYL	13463393	X	X	X	X	1			10
Nickel chloride	NICKEL CHLORIDE	7718549		X	X	X				100
Nickel chloride	NICKEL CHLORIDE	3721055		X	X	X				100
Nickel cyanide	NICKEL CYANIDE	557197		X	X	X				P074
Nickel hydroxide	NICKEL HYDROXIDE	12054487		X	X	X				10
Nickel nitrate	NICKEL NITRATE	14216752		X	X	X				100
Nickel sulfate	NICKEL SULFATE	7786814		X	X	X				100
Nicotine	NICOTINE	54115	X	X	X	X	100			P075
Nicotine and salts	NICOTINE AND SALTS	54115		X	X	X				100
Nicotine sulfate	NICOTINE SULFATE	65305	X				100/10,000			1
Nitric acid	NITRIC ACID	7697372	X	X	X	X	1,000	1.0	1,000	
Nitric oxide	NITRIC OXIDE	10102459	X	X	X	X	100			P076
Nitrotriacetic acid	NITROTRIACTIC ACID	139139		X	X	X				0.1
p-Nitroaniline	NITROANILINE	100016		X	X	X				5,000
5-Nitro-o-entaidine	NITROANISIDINE	99992		X	X	X				0.1
Nitrobenzene	NITROBENZENE	98953	X	X	X	X	10,000	1.0	1,000	U169
4-Nitrophenyl	NITROBIPHENYL	92933		X	X	X				0.1
Nitrocyclohexane	NITROCYCLOHEXANE	1122607	X				500			1
Nitrofen	NITROFEN	1836755		X	X	X				0.1
Nitrogen dioxide	NITROGEN DIOXIDE	10102440	X	X	X	X	100			P078
Nitrogen dioxide	NITROGEN DIOXIDE	10644726		X	X	X				10
Nitrogen mustard	NITROGEN MUSTARD	51752	X	X	X	X	10	0.1		1
Nitroglycerin	NITROGLYCERINE	55630	X	X	X	X				1.0
Nitrophenol (mixed isomers)	NITROPHENOL (MIXED)	25154556		X	X	X				100

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA					EPCRA 302 TQ (H)	DeMinimus Concent. (I)	M (J)	RCA CODE (K)
			302 (D)	313 (E)	CERCLA (F)	RCA (G)	RCA (L)				
m-Nitrophenol	NITROPHENOL-M	554847			X	X			100		
p-Nitrophenol	NITROPHENOL-P	100027	X	X	X	X		1.0	100	U170	
2-Nitrophenol	NITROPHENOL-2	68775	X	X	X	X		1.0	100		
4-Nitrophenol	NITROPHENOL-4	100027	X	X	X	X		1.0	100	U170	
Nitrophenols	NITROPHENOLS	99999999	X	X	X	X		1.0	**	**	
2-Nitropropane	NITROPROPANE	79469	X	X	X	X		0.1	10	U171	
Nitrosamines	NITROSAMINES	99999999	X	X	X	X		0.1	10	**	
N-Nitrosodi-n-butylamine	NITROSODIBUTYLAMINE	924163	X	X	X	X		0.1	10	U172	
N-Nitrosodimethylethylamine	NITROSODIETHANOLAMINE	1116547	X	X	X	X		0.1	10	U173	
N-Nitrosodimethylamine	NITROSODIMETHYLAMINE	55185	X	X	X	X		0.1	10	U174	
N-Nitrosodimethylamine	NITROSODIMETHYLAMINE	62759	X	X	X	X	1.000	0.1	10	PO82	
N-Nitrosodiphenylamine	NITROSODIPHENYLAMINE	62759	X	X	X	X	1.000	0.1	10	PO82	
p-Nitrosodiphenylamine	NITROSODIPHENYLAMINE	86306	X	X	X	X		1.0	100		
N-Nitrosodipropylamine	NITROSODIPROPYLAMINE	156105	X	X	X	X		0.1	10	U111	
N-Nitroso-N-ethylurea	NITROSOMETHYLUREA	621647	X	X	X	X		0.1	10	U176	
N-Nitrosomethylvinylamine	NITROSOMETHYLVINYLAMINE	757739	X	X	X	X		0.1	10	U177	
N-Nitrosopyrrolidine	NITROSOPYRROLIDINE	684935	X	X	X	X		0.1	10	U178	
N-Nitrosomethylurethane	NITROSOMETHYLURETHANE	4549400	X	X	X	X		0.1	10	PO84	
N-Nitrosomethylurethane	NITROSOMETHYLURETHANE	459691	X	X	X	X		0.1	10	U178	
N-Nitrosomethylurethane	NITROSOMETHYLURETHANE	615532	X	X	X	X		0.1	10	U178	
N-Nitrosomethylurethane	NITROSOMETHYLURETHANE	16543558	X	X	X	X		0.1	10	U179	
N-Nitrosomethylurethane	NITROSOMETHYLURETHANE	100754	X	X	X	X		0.1	10	U180	
Nitrotoluene	NITROTOLUENE	1321126	X	X	X	X		1.000	100		
m-Nitrotoluene	NITROTOLUENE-M	99381	X	X	X	X		1.000	100		
o-Nitrotoluene	NITROTOLUENE-O	58722	X	X	X	X		1.000	100		
p-Nitrotoluene	NITROTOLUENE-P	99990	X	X	X	X		1.000	100		
5-Nitro-o-toluidine	NITROTOLUIDINE	95958	X	X	X	X		1.0	100	U181	
Norbornide	NORBORNYLIDENE	951474	X	X	X	X	100/10,000	1.0	100	U181	
Octachloronaphthalene	OCTACHLORONAPHTHALEN	2234131	X	X	X	X		1.0	100		
Organorhodium Complex	ORGANORHODIUM COMPLEX	99999999	X	X	X	X	10/10,000	1.0	1,000	PO87	
Osmium oxide (7-4)-	OSMIUM OXIDE OSM (7-4)-	20816120	X	X	X	X		1.0	1,000	PO87	
Osmium tetroxide	OSMIUM TETROXIDE	20816120	X	X	X	X		1.0	1,000	PO87	
Ousabain	OUBAIN	630604	X	X	X	X	100/10,000	1.0	100		
Oxamyl	OXAMYL	23135220	X	X	X	X	100/10,000	1.0	100		
Oxetane, 3,3-bis(chloromethyl)-	OXETANE, 3,3-BIS(CHLOROMETHYL)-	78717	X	X	X	X	500	1.0	10	U115	
Oxirane	OXIRANE	75218	X	X	X	X	1,000	0.1	10	U115	
Oxylsulfoton	OXYSULFOTON	2497076	X	X	X	X	500	1.0	100		
Ozone	OZONE	10028156	X	X	X	X	100	1.0	100		
Parafomaldehyde	PARAFORMALDEHYDE	30525894	X	X	X	X		1.0	1,000		
Paraldehyde	PARALDEHYDE	12657	X	X	X	X		1.0	1,000	U182	
Paraquat	PARAQUAT	1510425	X	X	X	X	10/10,000	1.0	100	U182	
Paraquat methosulfate	PARAQUAT METHOSULFATE	2074502	X	X	X	X	10/10,000	1.0	100		
Parathion	PARATHION	56362	X	X	X	X	100	1.0	10	PO89	
Parathion-methyl	PARATHION-METHYL	29300	X	X	X	X	100/10,000	1.0	100	PO71	
Paris green	PARIS GREEN	12002038	X	X	X	X	500/10,000	1.0	100		
PCBs	PCBS	136363	X	X	X	X		0.1	10	U185	
PCNB	PCNB	62698	X	X	X	X		1.0	100	U185	
Pentaborane	PENTABORANE	19624227	X	X	X	X	500	1.0	100	U185	
Pentachlorobenzene	PENTACHLOROBENZENE	608935	X	X	X	X		1.0	10	U183	
Pentachloroethane	PENTACHLOROETHANE	76017	X	X	X	X		1.0	10	U184	
Pentachloronitrobenzene	PENTACHLORONITROBENZENE (PCNB)	62688	X	X	X	X		1.0	100	U185	
PCP	PENTACHLOROPHENOL	87865	X	X	X	X		1.0	10	U242	
Pentachlorophenol	PENTACHLOROPHENOL	87865	X	X	X	X		1.0	10	U242	
Pentadecylamine	PENTADECYLAMINE	2570265	X	X	X	X	100/10,000	1.0	100		
1,3-Pentadiene	PENTADIENE	504609	X	X	X	X		1.0	100	U186	
Peracetic acid	PERACETICACID	75210	X	X	X	X	500	1.0	10	U210	
Perchloroethylene	PERCHLOROETHYLENE	127184	X	X	X	X		0.1	100	U210	
Perchloromethylmercaptan	PERCHLOROMETHYLMEERCAPTAN	594423	X	X	X	X	500	1.0	100		
Phenacetin	PHENACETIN	62442	X	X	X	X		1.0	100	U187	
Phenanthrene	PHENANTHRENE	85018	X	X	X	X		5,000	100		
Phenol	PHENOL	108952	X	X	X	X	500/10,000	1.0	1,000	U188	
Phenol, 3-(1-methylethyl)- methylcarbonate	PHENOL, 3-(1-METHYLETHYL)- METHYLCARBONATE	64006	X	X	X	X	500/10,000	1.0	100		
Phenol, 2,4'-thiodis(4-chloro-6-methyl)-	PHENOL, 2,4'-THIODIS(4-CHLORO-6-METHYL)-	4418660	X	X	X	X	100/10,000	1.0	100		
Phenoxarsine, 10,10'-oxydi-	PHENOXARSINE, 10,10'-OXYDI-	58366	X	X	X	X	500/10,000	1.0	100		
Phenyl dichloroarsine	PHENYL DICHLOROARSINE	696286	X	X	X	X	500	1.0	10	PO86	
p-Phenylenediamine	PHENYLENEDIAMINE	106863	X	X	X	X		1.0	10	U189	
Phenylhydrazine hydrochloride	PHENYLHYDRAZINE HYDROCHLORIDE	59881	X	X	X	X	1,000/10,000	1.0	100		
Phenylmercuric acetate	PHENYLMERCURIC ACETATE	62384	X	X	X	X	500/10,000	1.0	100	PO92	
Phenylmercury acetate	PHENYLMERCURY ACETATE	62384	X	X	X	X	500/10,000	1.0	100	PO92	
2-Phenylphenol	PHENYLPHENOL	90437	X	X	X	X		1.0	100		
Phenylsilatrane	PHENYLSILATRANE	2097190	X	X	X	X	100/10,000	1.0	100		
Phenylthiourea	PHENYLTHIOUREA	103855	X	X	X	X	100/10,000	1.0	100	PO93	
Phorate	PHORATE	29902	X	X	X	X	10	1.0	100	PO94	
Phosacetin	PHOSACETIN	4104147	X	X	X	X	100/10,000	1.0	100		
Phosfolan	PHOSFOLAN	947024	X	X	X	X	100/10,000	1.0	100		



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			302 (D)	313 (E)	CERCLA (F)	RCRA (G)				
Phosgene	PHOSGENE	75445	X	X	X	X	10	1.0	10	F095
Phosmet	PHOSMET	732116	X				10/10,000			
Phosphamidon	PHOSPHAMIDON	13171216	X				100			
Phosphine	PHOSPHINE	7803512	X		X	X	500		100	F096
Phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl)phosphonothioic acid, methyl-, O-ethyl O-(4-(methylthio)phenyl)phosphonothioic acid, methyl-, S-(2-bis(1-methylethyl)amino)phosphonothioic acid, methyl-, S-(2-bis(1-methylethyl)amino)phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl phosphonothioic acid, methyl-, O-(4-nitrophenyl) O-phenyl phosphonic acid	PHOSPHONOTHIOIC ACID, METHYL-, O-ETHYL O-(4-(METHYLTHIO)PHENYL)PHOSPHONOTHIOIC ACID, METHYL-, O-ETHYL O-(4-(METHYLTHIO)PHENYL)PHOSPHONOTHIOIC ACID, METHYL-, S-(2-(BIS(1-METHYLETHYL)AMINO)PHOSPHONOTHIOIC ACID, METHYL-, S-(2-(BIS(1-METHYLETHYL)AMINO)PHOSPHONOTHIOIC ACID, METHYL-, O-(4-NITROPHENYL) O-PHENYL PHOSPHONOTHIOIC ACID, METHYL-, O-(4-NITROPHENYL) O-PHENYL PHOSPHONIC ACID	2703131 50782699 2665307 7663682	X X X X				500 100 500		1 1 1	
Phosphoric acid, dimethyl 4-(methylthio) phenyl ester	PHOSPHORICACID, DIMETHYL 4-(METHYLTHIO) PHENYL ES	3254635	X				500	1.0	5,000	
Phosphorothioic acid, O,O-dimethyl-5-(2-(methylthio)ethyl)est	PHOSPHOROTHIOIC ACID, O,O-DIMETHYL-5-(2-(METHYLTHIO	2587908	X				500			
Phosphorus	PHOSPHORUS	7723140	X		X	X	100	1.0	1	
Phosphorus (yellow or white)	PHOSPHORUS	7723140	X		X	X	100	1.0	1	
Phosphorus oxychloride	PHOSPHORUS OXYCHLORIDE	10025873	X		X	X	500		1,000	
Phosphorus pentachloride	PHOSPHORUS PENTACHLORIDE	1028358	X		X	X	500		1	
Phosphorus pentoxide	PHOSPHORUS PENTOXIDE	1314563	X				10		1	
Phosphorus trichloride	PHOSPHORUS TRICHLORIDE	7719122	X		X	X	1,000		1,000	
Phthalate Esters	PHTHALATE ESTERS	99999999	X		X	X			**	
Phthalic anhydride	PHTHALICANHYDRIDE	85449	X		X	X		1.0	5,000	U190
Phystigmine	PHYSTIGMINE	57476	X				100/10,000		1	
Physoctigmine, salicylate (1:1)	PHYSOCTIGMINE, SALICYLATE (1:1)	57647	X				100/10,000		1	
2-Picoline	PICOLINE	109068	X		X	X		1.0	5,000	U191
Picric acid	PICRICACID	88891	X		X	X		1.0	1	
Picrotoxin	PICROTOXIN	124878	X				500/10,000		1	
Piperidine	PIPERIDINE	110894	X				1,000		1	
Pirimafos-ethyl	PIRIMAFOS-ETHYL	23505411	X				1,000		1	
Polybrominated Biphenyls (PBBS)	POLYBROMINATED BIPHENYLS (PBBS)	99999999	X		X	X		**	1	
Polychlorinated biphenyls	POLYCHLORINATED BIPH	133633	X		X	X		0.1	1	
Polycyclic organic matter	POLYCYCLOGRANICMATTER	99999999	X		X	X			1	
Polynuclear Aromatic Hydrocarbons	POLYNUCLEAR AROMATIC HYDROCARBONS	99999999	X		X	X			**	
Potassium arsenate	POTASSIUMARSENATE	7784410	X						1	
Potassium arsenite	POTASSIUMARSENITE	10124502	X				500/10,000		1	
Potassium bichromate	POTASSIUMBICHROMATE	7778509	X						10	
Potassium chromate	POTASSIUMCHROMATE	7789006	X						10	
Potassium cyanide	POTASSIUMCYANIDE	145908	X		X	X	100		10	F098
Potassium hydroxide	POTASSIUMHYDROXIDE	1310583	X						1,000	
Potassium permanganate	POTASSIUMPERMANGANATE	7722647	X						100	
Potassium silver cyanide	POTASSIUMSILVERCYANIDE	506816	X		X	X	500		1	F099
Propacarb	PROPACARB	2631370	X				500/10,000		1	
Propane 1,2-dichloro-	PROPANE 1,2-DICHLORO-	78875	X		X	X		1.0	1,000	U083
1,2-Propene sulfone	PROPANE SULFONE	1120714	X		X	X		0.1	10	U193
Propane sulfone	PROPANESULFONE	1120714	X		X	X		0.1	10	U193
Propargite	PROPARGITE	2312368	X						10	
Propargyl alcohol	PROPARGYL ALCOHOL	107197	X		X	X		1.0	1,000	F102
Propargyl bromide	PROPARGYL BROMIDE	106967	X				10		1	
Propiolactone	PROPIOLACTONE	57578	X		X	X	500	0.1	1	
Propionaldehyde	PROPIONALDEHYDE	123366	X		X	X		1.0	1	
Propionic acid	PROPIONICACID	75094	X		X	X			5,000	
Propionic anhydride	PROPIONICANHYDRIDE	123626	X		X	X			5,000	
Propionitrile	PROPIONITRILE	107120	X		X	X	500		10	F101
Propionitrile, 3-chloro-	PROPIONITRILE, 3-CHLORO-	94767	X		X	X	1,000		1,000	F027
Propiophenone, 4'-amino	PROPIOPHENONE, 4'-AMINO	70699	X				100/10,000		1	
Propyl chloroformate	PROPYL CHLOROFORMATE	114261	X		X	X		1.0	1	
n-Propylamine	PROPYLAMINE	109615	X		X	X	500		1	
Propylene (Propene)	PROPYLENE	107108	X		X	X			5,000	U194
Propyleneimine	PROPYLENEIMINE	115071	X		X	X		1.0	1	
Propylene oxide	PROPYLENEOXIDE	75566	X		X	X	10,000	0.1	100	F067
DI-n-propylnitrosamine	PROPYLENITROSGAMINE	621647	X		X	X		0.1	10	U111
Prothoate	PROTHOATE	2275185	X				100/10,000		1	
Pyrene	PYRENE	2275000	X		X	X	1,000/10,000		5,000	
Pyrethrins	PYRETHRINS	121211	X		X	X			1	
Pyrethrins	PYRETHRINS	121299	X		X	X			1	
Pyrethrins	PYRETHRINS	8003347	X		X	X			1	
Pyridine	PYRIDINE	110861	X		X	X		1.0	1,000	U196
Pyridine, 4-amino-	PYRIDINAMINO-	504245	X		X	X	500/10,000		1,000	F068
Pyridine, 3-[1-methyl-2-pyrrolidinyl]-, (S)-	PYRIDINEMETHYLPYRROLIDINYL(S)-	94115	X		X	X	100		100	F075
Pyridine, 2-methyl-5-vinyl-	PYRIDINEMETHYLVINYL-	140761	X				500		1	
Pyridine, 4-nitro-, 1-oxide	PYRIDINENITROCKRIDE	1124330	X				500/10,000		1	
Pyriminil	PYRIMINIL	53548251	X				100/10,000		1	
Quinine	QUINOLINE	91225	X		X	X		1.0	5,000	
Quinone	QUINONE	106514	X		X	X		1.0	10	U197
Quintosene	QUINTOSENE	83686	X		X	X		1.0	100	U188
Rasarpine	RESERPINE	50685	X		X	X		5,000	100	U203
Resorcinol	RESORCINOL	108463	X		X	X			5,000	U201
Saccharin (manufacturing)	SACCHARIN	81072	X		X	X		0.1	100	U202
Saccharin and salts	SACCHARIN AND SALTS	81072	X		X	X			100	U202

All EPCRA 302/313 and CERCLA Chemicals

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302				EPCRA 302 TPD (H)	Definition Concent. (I)	RQ (J)	RCRA CODE (K)
			302	313	CERCLA (E)	RCRA (G)				
Safrole	SAPROLE	94597		X	X	X		0.1	100	U203
Salicylic acid	SALICYLIC ACID	14167181	X				500/10,000		1	
Sarin	SARIN	107448	X				10		10	U204
Selenious acid	SELENIOS ACID	7783008	X		X	X	1,000/10,000		1,000	P114
Selenious acid, ditellurium(1+) salt	SELENIOS ACID, DITELLURIUM(1+) SALT	1232963		X	X	X		1.0	100**	
Selenium	SELENIUM	7782492		X	X	X		1.0	100**	
Selenium Compounds	SELENIUM AND COMPOUNDS	99999999		X	X	X			10	
Selenium dioxide	SELENIUM DIOXIDE	744254		X	X	X			1	
Selenium oxychloride	SELENIUM OXYCHLORIDE	7791233	X				500		1	U205
Selenium sulfide	SELENIUM SULFIDE	7488564		X	X	X			10	P103
Selenourea	SELENOUREA	630104		X	X	X			1	
Semioarabide hydrochloride	SEMIOARABIDE HYDROCHLORIDE	563417	X				1,000/10,000		1	
Silane, (4-aminobutyl)diethoxymethyl-	SILANE, (4-AMINOBTYL)DIETHOXYMETHYL-	3037727	X				1,000		1.0	1,000**
Silver	SILVER	7440224		X	X	X			**	
Silver Compounds	SILVER AND COMPOUNDS	99999999		X	X	X			1	P104
Silver cyanide	SILVER CYANIDE	506649		X	X	X			1	
Silver nitrate	SILVERNITRATE	7781888		X	X	X			100	U233
Silvex (2,4,5-TP)	SILVEX (2,4,5-TP)	93721		X	X	X			10	
Sodium	SODIUM	7440235		X	X	X			10	
Sodium arsenate	SODIUM ARSENATE	7631892	X				1,000/10,000		1	
Sodium arsenite	SODIUM ARSENITE	7784465	X				500/10,000		1	
Sodium azide (Na(N3))	SODIUM AZIDE (Na(N3))	26628228	X		X	X	500		1,000	P105
Sodium dichromate	SODIUM DICHROMATE	10958019		X	X	X			10	
Sodium difluoride	SODIUM DIFLUORIDE	1333831		X	X	X			10	
Sodium disulfite	SODIUM DISULFITE	7631905		X	X	X			5,000	
Sodium cocoylate	SODIUM COCOYLATE	124652	X				100/10,000		1	
Sodium chromate	SODIUM CHROMATE	7775113		X	X	X			10	P106
Sodium cyanide (Na(CN))	SODIUM CYANIDE (Na(CN))	143338	X			X	100		1,000	
Sodium dodecylbenzenesulfonate	SODIUM DODECYLBENZENSULFONATE	25158300		X	X	X			1,000	
Sodium fluoride	SODIUM FLUORIDE	7681494		X	X	X			10	F058
Sodium fluoroacetate	SODIUM FLUOROACETATE	6748		X	X	X	10/10,000		5,000	
Sodium hydrosulfide	SODIUM HYDROSULFIDE	16721805		X	X	X			5,000	
Sodium hydroxide	SODIUM HYDROXIDE	1310732		X	X	X			1,000	
Sodium hypochlorite	SODIUM HYPOCHLORITE	7681529		X	X	X			100	
Sodium hypochlorite	SODIUM HYPOCHLORITE	10022705		X	X	X			100	
Sodium methylate	SODIUM METHYLATE	124414		X	X	X			1,000	
Sodium nitrite	SODIUM NITRITE	7632000		X	X	X			100	
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	758794		X	X	X			5,000	
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	10039324		X	X	X			5,000	
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	1014065		X	X	X			5,000	
Sodium phosphate, dibasic	SODIUM PHOSPHATE, DIBASIC	7601549		X	X	X			5,000	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	7758294		X	X	X			5,000	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	7785844		X	X	X			5,000	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10301850		X	X	X			5,000	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10124568		X	X	X			5,000	
Sodium phosphate, tribasic	SODIUM PHOSPHATE, TRIBASIC	10361894		X	X	X		100/10,000	1	
Sodium selenate	SODIUM SELENATE	13410010		X	X	X			100	
Sodium selenite	SODIUM SELENITE	7782823		X	X	X			100	
Sodium selenite	SODIUM SELENITE	10102188	X				100/10,000		100	
Sodium selenite	SODIUM SELENITE	10102202	X				500/10,000		1	
Sodium tellurite	SODIUM TELLURITE	900958	X				500/10,000		1	
Stannane, acetoxytriphenyl-	STANNANE, ACETOXYTRIPHENYL-	7789062		X	X	X			10	P108
Strontium chromate	STRONTIUM CHROMATE	57249	X		X	X			10	P108
strychnine	STRYCHNINE	57249	X		X	X			10	
strychnine, and salts	STRYCHNINE, AND SALTS	60413	X		X	X	100/10,000		10	
strychnine, sulfate	STRYCHNINE, SULFATE	100425		X	X	X			0.1	1,000
Styrene	STYRENE	90028		X	X	X			10	
Styrene oxide	STYRENE OXIDE	3689245	X		X	X	500		100	P109
Sulfates	SULFATES	96033		X	X	X			1	
Sulfide, 3-chloropropyl octyl	SULFIDE, 3-CHLOROPROPYL OCTYL	3669571	X				500		1	
Sulfur dioxide	SULFUR DIOXIDE	7446095	X				500		1	
Sulfuric acid	SULFURIC ACID	7664959	X	X	X	X	1,000	1.0	1,000	
Sulfuric acid (fuming)	SULFURIC ACID (FUMING)	8014957		X	X	X			1,000	
Sulfur monochloride	SULFUR MONOCHLORIDE	12771083		X	X	X			1,000	
Sulfur phosphide	SULFUR PHOSPHIDE	1214903		X	X	X			100	U189
Sulfur tetrafluoride	SULFUR TETRAFLUORIDE	7783600	X				100		1	
Sulfur trioxide	SULFUR TRIOXIDE	7446119	X				100		1	
2,4,5-T acid	T ACID	49765		X	X	X			1,000	U232
2,4,5-T amines	T AMINES	1319728		X	X	X			5,000	
2,4,5-T amines	T AMINES	2008460		X	X	X			5,000	
2,4,5-T amines	T AMINES	3813147		X	X	X			5,000	
2,4,5-T amines	T AMINES	6369966		X	X	X			5,000	
2,4,5-T amines	T AMINES	6369977		X	X	X			5,000	
2,4,5-T esters	T ESTERS	93798		X	X	X			1,000	
2,4,5-T esters	T ESTERS	1928478		X	X	X			1,000	
2,4,5-T esters	T ESTERS	2545597		X	X	X			1,000	
2,4,5-T esters	T ESTERS	25168154		X	X	X			1,000	

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CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302/313				EPCRA 302 TQ (H)	Definition Concent. (I)	RQ (J)	RCA CODE (K)
			(D)	(E)	(F)	(G)				
2,4,5-T esters	T ESTERS	61792072			X				1,000	
2,4,5-T salts	T SALTS	13560991			X				1,000	
Tellurium	TELLURIUM	7345	X				10		1	
Tellurium hexafluoride	TELLURIUM HEXAFLUORIDE	13494809	X				500/10,000		1	
Terp	TERP	7783804	X				100		1	
Terbufos	TERBUFOS	13071799	X				100		10	P111
1,2,4,5-tetrachlorobenzene	TETRACHLORO BENZENE	95943		X	X				5,000	U207
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	TETRACHLORODIBENZO-P-DIOXIN (TCDD)	1746016		X	X				0.1	100
1,1,1,2-tetrachloroethane	TETRACHLOROETHANE	107493		X	X	X			0.1	100
Tetrachloroethylene	TETRACHLOROETHYLENE	127194		X	X	X			0.1	100
2,3,4,6-tetrachlorophenol	TETRACHLOROPHENOL	58902		X	X	X			1.0	10
Tetrachloroethylene	TETRACHLOROETHYLENE	961115		X	X	X			1.0	10
Tetraethylthiopyrophosphate	TETRAETHYLTHIOPYROPHOSPHATE	3689245	X	X	X		500		100	P109
Tetraethyl lead	TETRAETHYLLEAD	78002	X	X	X		100		10	P110
Tetraethyl pyrophosphate	TETRAETHYL PYROPHOSPHATE	107493	X	X	X		100		10	P111
Tetraethyltin	TETRAETHYL TIN	597648	X	X	X		100		1	
Tetramethyllead	TETRAMETHYLLEAD	75741	X	X	X		100		1	
Tetramethylenethane	TETRAMETHYLENE	599148	X	X	X		500		10	P112
Thallic oxide	THALLIC OXIDE	1314325		X	X				100	P113
Thallium	THALLIUM	7440280		X	X				1.0	1,000**
Thallium Compounds	THALLIUM AND COMPOUNDS	99999999	X	X	X				**	
Thallium(I) acetate	THALLIUM ACETATE	56388	X	X	X				100	U214
Thallium(I) carbonate	THALLIUM CARBONATE	6533739	X	X	X		100/10,000		100	U215
Thallium chloride triCl	THALLIUM CHLORIDE TRI CL	7791120	X	X	X		100/10,000		100	U216
Thallium(I) nitrate	THALLIUM NITRATE	10102451	X	X	X				100	U217
Thallium(I) sulfate	THALLIUM SULFATE	7446186	X	X	X		100/10,000		100	P115
Thallium sulfide	THALLIUM SULFIDE	10031591	X	X	X		100/10,000		100	
Thallous carbonate	THALLOUS CARBONATE	6533739	X	X	X		100/10,000		100	U215
Thallous chloride	THALLOUS CHLORIDE	7791120	X	X	X		100/10,000		100	U216
Thallous malonate	THALLOUS MALONATE	2757188	X	X	X		100/10,000		1	
Thallous sulfate	THALLOUS SULFATE	7446186	X	X	X		100/10,000		100	P116
Thioacetamide	THIOACETAMIDE	62555		X	X	X		0.1	10	U218
Thiocarbazine	THIOCARBAZIDE	2231574	X	X	X		1,000/10,000		1	
4,4'-thiodianiline	THIODIANILINE	139651		X	X			0.1	100	
thiofexox	THIOFENOX	39194184	X	X	X		100/10,000		100	P085
thioethanol	THIOETHANOL	74931	X	X	X		500	1.0	100	U153
thionazin	THIONAZIN	297972	X	X	X		500		100	P040
thiophenol	THIOPHENOL	108386	X	X	X		500		100	P014
thiosemicarbazide	THIOSEMICARBAZIDE	79196	X	X	X		100/10,000		100	P116
thiourea	THIOUREA	62566		X	X	X		0.1	10	U219
thiourea, (2-chlorophenyl)-	THIOUREA, (2-CHLOROPHENYL)-	5344821	X	X	X		100/10,000		100	P026
thiourea, (2-methylphenyl)-	THIOUREA, (2-METHYLPHENYL)-	614768	X	X	X		500/10,000		100	
thiourea, 1-naphthalenyl-	THIOUREA, 1-NAPHTHALENYL-	86884	X	X	X		500/10,000		100	P072
thiuram	THIURAM	137266		X	X	X		1.0	10	U244
Thorium dioxide	THORIUM DIOXIDE	1314201		X	X				1.0	10
Titanium tetrachloride	TITANIUM TETRACHLORIDE	7550450	X	X	X		100	1.0	10	
o-Tolidine	TOLIDINE	119937	X	X	X			0.1	10	P056
Toluene	TOLUENE	108883	X	X	X			1.0	1,000	U203
Toluenediamine	TOLUENEDIAMINE	25376458	X	X	X			0.1	10	U221
Toluene-2,6-diisocyanate	TOLUENE-2,6-DIISOCYANATE	91087	X	X	X		100		0.1	100
Toluene-2,4-diisocyanate	TOLUENE-2,4-DIISOCYANATE	584849	X	X	X		500		0.1	100
Toluenediisocyanate (mixed isomers)	TOLUENEDIISOCYANATE (MIXED ISOMERS)	26471625	X	X	X				0.1	100
o-Toluidine	TOLUIDINE	95534	X	X	X				0.1	100
p-Toluidine	TOLUIDINE	106490	X	X	X				0.1	100
o-Toluidine hydrochloride	TOLUIDINE HYDROCHLORIDE	636215	X	X	X				0.1	100
Towaxene	TOWAXENE	8001352	X	X	X		500/10,000		0.1	100
2,4,5-TP esters	TP ESTERS	32534955							1	
Triamphos	TRIAMPHOS	1031476	X				500/10,000		100	
Triaziquone	TRIAZIQONE	68768		X					0.1	1
Triazofos	TRIAZOFOS	24017478	X				500		1	
Tribromomethane	TRIBROMOMETHANE	75252		X	X	X			1.0	100
Trichloron	TRICHLORON	52636		X	X	X			1.0	100
Trichloroacetyl chloride	TRICHLOROACETYL CHLORIDE	76028	X				500		1.0	100
1,2,4-trichlorobenzene	TRICHLORO BENZENE	120821	X	X	X				1.0	100
Trichloro(chloromethyl)silane	TRICHLORO(CHLOROMETHYL)SILANE	1558264	X	X	X		100		1	
Trichloro(dichlorophenyl)silane	TRICHLORO(DICHLOROPHENYL)SILANE	27137855	X	X	X		500		1.0	1,000
1,1,1-trichloroethane	TRICHLOROETHANE	71556		X	X	X			1.0	100
1,1,2-trichloroethane	TRICHLOROETHANE	79005		X	X	X			1.0	100
Trichloroethylene	TRICHLOROETHYLENE	79016		X	X	X			1.0	100
Trichloroethylsilane	TRICHLOROETHYL SILANE	115219	X				500		1.0	5,000
Trichloroethanesulfenyl chloride	TRICHLOROETHANESULFENYL CHLORIDE	75694	X	X	X		500		1.0	5,000
Trichloroethoxyfluoromethane	TRICHLOROETHOXYFLUOROMETHANE	594423	X	X	X		500		1.0	5,000
Trichloroethoxyfluoromethane	TRICHLOROETHOXYFLUOROMETHANE	75694	X	X	X		500		1.0	5,000
Trichloroethane	TRICHLOROETHANE	37780	X						1	
Trichlorophenol	TRICHLOROPHENOL	25167822			X				10	

All EPCRA 302/313 and CERCLA Chemicals

ALL EPCRA 302/313 and CERCLA Chemicals (Sorted Alphabetically by Chemical Name)

CHEMICAL NAME (A)	ALTERNATE NAME (B)	CAS NUMBER (C)	EPCRA 302/313				EPCRA 302/313 (H)	Definition Concentr. (I)	RQ (J)	CERCLA CERCLA (K)
			(D)	(E)	(F)	(G)				
2,3,4-Trichlorophenol	TRICHLOROPHENOL-A	15950660			X			10		
2,3,5-Trichlorophenol	TRICHLOROPHENOL-B	933788			X			10		
2,3,6-Trichlorophenol	TRICHLOROPHENOL-C	933755			X			10		
2,4,5-Trichlorophenol	TRICHLOROPHENOL-D	958356		X	X	X	1.0	10	U230	
2,4,6-Trichlorophenol	TRICHLOROPHENOL-E	880662		X	X	X	0.1	10	U231	
3,4,5-Trichlorophenol	TRICHLOROPHENOL-F	609198			X			10		
Trichlorophenylsilane	TRICHLOROPHENYLSILANE	961437		X			500	1,000		
Triethoxyamine dodecylbenzene sulfonate	TRIETHOXYAMINE DODECYLBENZENE SULFONATE	2732437			X			100		
Triethoxysilane	TRIETHOXY-SILANE	998301	X				500	1		
Triethylamine	TRIETHYLAMINE	121448		X	X			5,000		
Trifluoroin	TRIFLUORIN	152098		X	X		1.0	1		
Trimethylamine	TRIMETHYLAMINE	75303		X	X			100		
1,2,4-Trimethylbenzene	TRIMETHYLBENZENE	95636	X	X			1.0	1		
Trimethylchlorosilane	TRIMETHYLCHLOROSILANE	75774	X				1,000	1		
Trimethylolpropane phosphite	TRIMETHYLOLPROPANE PHOSPHITE	824113	X				100/10,000	1		
2,2,4-Trimethylpentane	TRIMETHYLPENTANE	540841			X			1		
Trimethyltin chloride	TRIMETHYLTIN CHLORIDE	1066451	X				500/10,000	1		
1,3,5-Trinitrobenzene	TRINITROBENZENE	9934			X	X		10	U234	
Triphenyltin chloride	TRIPHENYLTIN CHLORIDE	639567	X				500/10,000	1		
Tris(2-chloroethyl)amine	TRIS(2-CHLOROETHYL)AMINE	955771	X				100	1		
Tris(2,3-dichloropropyl) phosphite	TRIS(2,3-DICHLOROPROPYL) PHOSPHITE	129777		X	X			0.1	10	
Trypan blue	TRYPAN BLUE	72571		X	X	X		0.1	10	
Uracil mustard	URACIL MUSTARD	66751		X	X	X		10	U237	
Uranyl acetate	URANYL ACETATE	844053		X	X			100		
Uranyl nitrate	URANYL NITRATE	10102064		X	X			100		
Urethane	URANYL NITRATE	36478769		X	X			100		
Urethane	URETHANE	51796		X	X			100	U238	
Valinomycin	VALINOMYCIN	2001988	X	X	X	X	1,000/10,000	0.1	100	
Vanadium (fume or dust)	VANADIUM	7440522		X	X			1.0		
Vanadium pentoxide	VANADIUM PENTOXIDE	1314622	X		X	X	100/10,000	1,000	F120	
Vanadyl sulfate	VANADYL SULFATE	2774136		X	X			1,000		
Vinyl acetate monomer	VINYL ACETATE MONOMER	108064	X	X	X		1,000	1.0	5,000	
Vinyl acetate	VINYLAACETATE	109054	X	X	X		1,000	1.0	5,000	
Vinyl bromide	VINYLBROMIDE	593502	X	X				0.1	1	
Vinyl chloride	VINYLCHLORIDE	75014	X	X	X			0.1	1	
Vinylidene chloride	VINYLDIBROMCHLORIDE	75354	X	X	X			1.0	100	
Warfarin	WARFARIN	81812	X	X	X		500/10,000	1.0	100	
Warfarin, & salts, conc. >0.3%	WARFARIN SALTS, WHEN PRESENT AT CONCENTRATIONS	81812		X	X			100	F001	
Warfarin sodium	WARFARIN SODIUM	129066	X				100/10,000	1		
p-Xylene	XYLENE	106883		X	X	X		1.0	1,000	
m-Xylene	XYLENES	95476		X	X	X		1.0	1,000	
o-Xylene	XYLENE	106423		X	X	X		1.0	1,000	
Xylene (mixed isomers)	XYLENEMIXEDISOMER	1330207		X	X	X		1.0	1,000	
Xylenol	XYLENE	1340716		X	X			1.0	1,000	
2,6-Xyldina	XYLIDINE	87627		X				1.0		
Xylylene dichloride	XYLYLENE DICHLORIDE	28347139	X				100/10,000	1		
Zinc (fume or dust)	ZINC	7440666		X	X			1.0	1,000*	
Zinc Compound	ZINC AND COMPOUNDS	99999999		X	X			**	**	
Zinc acetate	ZINCACETATE	557546		X				1,000		
Zinc ammonium chloride	ZINCAMMONIUM CHLORIDE	14639975		X				1,000		
Zinc ammonium chloride	ZINCAMMONIUM CHLORIDE	14639986		X				1,000		
Zinc ammonium chloride	ZINCAMMONIUM CHLORIDE	52626268		X				1,000		
Zinc borate	ZINCBORATE	1532076		X				1,000		
Zinc bromide	ZINCBRONIDE	7699458		X				1,000		
Zinc carbonate	ZINC CARBONATE	3486359		X				1,000		
Zinc chloride	ZINCCHLORIDE	7646857		X				1,000		
Zinc cyanide	ZINC CYANIDE	557211		X	X			10	F121	
Zinc, dichloro(4,4-dimethyl-5(((methylamino)carbonyl)oxy)im)zinc dichloro(4,4-dimethyl-5(((methylamino) carb	ZINC DICHLORO(4,4-DIMETHYL-5(((METHYLAMINO) CARB	58270089	X				100/10,000	1		
Zinc fluoride	ZINCFLUORIDE	7783495		X				1,000		
Zinc formate	ZINCFORMATE	557415		X				1,000		
Zinc hydrosulfite	ZINCHYDROSULFITE	7779864		X				1,000		
Zinc nitrate	ZINC NITRATE	7779885		X				1,000		
Zinc phenyl sulfonate	ZINC PHENYL SULFONATE	127822		X				5,000		
Zinc phosphide	ZINC PHOSPHIDE	1314847	X	X	X		500	100	F122	
Zinc phosphide (conc. <= 10%)	ZINC PHOSPHIDE	1314847	X	X	X		500	100	U249	
Zinc phosphide (conc. > 10%)	ZINC PHOSPHIDE	1314847	X	X	X		500	100	F122	
Zinc silicofluoride	ZINC SILICOFLUORIDE	16571719		X				5,000		
Zinc sulfate	ZINC SULFATE	7733020		X				1,000		
Zinc	ZINC	12122677		X			1.0	5,000		
Zirconium nitrate	ZIRCONIUM NITRATE	13746899		X	X			5,000		
Zirconium potassium fluoride	ZIRCONIUM POTASSIUM FLUORIDE	16923956		X	X			1,000		
Zirconium sulfate	ZIRCONIUM SULFATE	14644612		X	X			5,000		
Zirconium tetrachloride	ZIRCONIUM TETRACHLORIDE	10026116		X				5,000		

**Appendix 3 State-by-State Listing of EPCRA Contacts**

This Appendix provides a point-of-contact (POC) in each state, for units to begin acquiring specific information needed to comply with EPCRA; e.g. POC, address, phone# for the *SERC and LEPC*. States do vary in their EPCRA reporting requirements, primarily with respect to EPCRA 311/312 reporting. These requirements have been coded in the following tables, and are noted for each state.

**EPCRA 311 Requirements Code**

- 1 - Prefer Inventory List
- 2 - Require Inventory List
- 3 - State List Preferred
- 4 - State List Required
- 5 - Prefer MSDS
- 6 - Require MSDS

**EPCRA 312 Requirements Code**

- A - Prefer Tier II
- B - Require Tier II
- C - Prefer State form
- D - Require State form
- E - Require State Hazardous Chemical Inventory

**Alabama - 1,A**

Mr. John Williford (RTK)  
Alabama Emergency Response Commission  
Alabama Department of Environmental Management  
Dave White (Emergency Plan & Response)  
1751 Congressman W.L. Dickinson Drive  
Montgomery, AL 36109  
(205) 834-1370

**Arizona - 2,B**

Mr. Daniel Roe, Acting Executive Director  
Arizona Emergency Response Commission  
Division of Emergency Services  
5636 East McDowell Road  
Phoenix, AZ 85008  
(602) 231-6346

**Alaska - 1,A**

Ms. Camille Stephens  
Alaska State Emergency Response Commission  
Department of Environmental Conservation  
410 Willoughby, Suite 105  
Juneau, AK 99801-1795  
(907) 465-5220

**Arkansas - 1,A**

Mr. John Ward  
Arkansas Department of Pollution Control and Ecology  
P.O. Box 8913  
8001 National Drive  
Little Rock, AR 72219-8913  
(501) 562-7444

**American Samoa**

Goipa Tausaga  
American Samoa EPA  
Office of the Governor  
Pago Pago, AS 96799  
International Number  
(684) 633-2304

**California- 1,D**

Mr. Stephen Hanna  
Hazmat Unit office of Emergency Services  
California Environmental Protection Agency  
555 Capitol Mall, Suite 235  
Sacramento, CA 95814  
(916) 262-1750

**Colorado - 1,D**

Winifred Bromley  
Colorado Emergency Planning Commission  
Colorado Department of Health  
4300 Cherry Creek Drive South  
Denver, CO 80222-1530  
(303) 692-3434

**Commonwealth of Northern  
Mariana Islands**

Mr. Frank Russell Meecham, III  
Division of Environmental Quality  
P.O. Box 1304  
Saipan, MP 96950  
(670) 234-6984

**Connecticut - 1,D**

Suzanne Vaughn  
SARA Title III Coordinator  
Department of Environmental Protection  
C/O Waste Management  
79 Elm St.  
Hartford, CT 06106-5127  
(203) 566-4856

**Delaware - 1,D**

Mr. Robert Pritchard  
Division of Air and Waste Management  
Department of Natural Resources and  
Environmental Control  
89 King's Highway  
P.O. Box 1401  
Dover, DE 19903  
(302) 834-4531

**District of Columbia - 1,A**

Ms. Pamela Thuber,  
Environmental Planning Specialist  
Office of Emergency Preparedness  
2001 14th Street, NW, 8th Floor  
Washington, DC 20009  
(202) 727-2985

**Florida - 3,C**

Ms. Eve Rainey  
State Emergency Response  
Commission  
Florida Department of Community Affairs  
2740 Centerview Drive  
Tallahassee, FL 32399-2100  
(904) 488-1472  
In Florida: 800-635-7179

**Georgia - 4,B**

Mr. Burt Langley  
Georgia Emergency Response Commission  
7 Martin Luther King Dr. Room 139  
Atlanta, GA 30334  
(404) 656-6905

**Guam**

Mr. Fred Castro  
Guam EPA  
D-107 Harmon Plaza  
130 Rojas Street  
Harmon, GU 96911  
(671) 646-8864

**Hawaii - 1,A**

Ms. Laura Young  
Hawaii State Emergency Response  
Commission  
Hawaii State Department of Health  
5 Waterfront Plaza, Suite 250C  
500 Alameda Blvd.  
Honolulu, HI 96813  
(808) 586-4353

**Idaho - 1,B**

Ms. Margaret Ballard  
Idaho Emergency Response Commission  
1109 Main St.  
State House  
Boise, ID 83720-7000  
(208) 334-3263

**Illinois - 1,A**

Mr. Oran Robinson  
Emergency Planning Unit  
Office of Chemical Safety  
Illinois EPA  
P.O. Box 19276  
2200 Churchill Road  
Springfield, IL 62794-9276  
(217) 782-4694

**Indiana - 1,A**

Mr. John Rose  
Indiana Department of Environmental  
Management  
Office of Pollution Prevention  
Technical Assistance  
100 North Senate (N-1355)  
Box 6015  
Indianapolis, IN 46206-6015  
(317) 243-5176

**Iowa - 1,B**

Mr. Pete Hamlin (313)/Don Peddy  
(311 & 312) (515)281-6175  
Department of Natural Resources  
Wallace Building  
900 East Grand Avenue  
Des Moines, IA 50319  
(515)281-8852

**Kansas - 2,B**

Mr. Jon Flint  
Right-to-Know Program  
Kansas Emergency Response Commission  
J Street and 2 North  
Building 283, Forbes Field  
Topeka, KS 66620  
(913)296-1690

**Kentucky - 1,B**

Ms. Lucille Orlando  
Kentucky Department for Environmental  
Protection  
14 Reilly Road  
Frankfort, KY 40601  
(502)564-5223

**Louisiana - 1,C**

Ms. Bob Hayes  
Department of Environmental Quality  
P.O. Box 82263  
7890 Bluebonnet  
Baton Rouge, LA 70810-2263  
(504)925-6113

**Maine - 1 (SERC, LEPC),**

S(Fire Dept),D  
Ms Rayna Leibowitz  
State Emergency Response Commission  
State House Station Number 72  
Augusta, ME 04333  
(207)287-4080  
In Maine: (800)452-8735

**Missouri- 1,C**

Mr. Dean Martin (313) Bob Kraus (311/312)  
Missouri Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102  
**certified mail only:**  
Missouri Department of Natural Resources  
2710 West Main  
Jefferson City, MO 65109  
(314)526-3371 (314)526-3901

**Maryland - 1,B**

Ms. Emily Troyer  
State Emergency Response Commission  
Maryland Department of the Environment  
Toxics Information Center  
2500 Broeing Highway  
Baltimore, MD 21224  
(410)631-3343

**Massachusetts - 1 (W/CAS#),B**

Mr. Mike Feeney  
Massachusetts Department of  
Environmental Protection  
Bureau of Waste Prevention  
1 Winter Street  
Boston, MA 02108  
(617)727-7035

**Michigan - 1,A**

Mr. Kent Kanagey  
Title III Coordinator  
Michigan Department of Natural  
Resources Environmental Response  
Division Title III Unit  
P.O. Box 30426  
Lansing, MI 48909  
**certified mail only:**  
300 South Washington Square  
Title III, 5th Floor  
Lansing, MI 48909  
(517)373-8481

**Minnesota - 3,C**

Mr. Paul Aasen  
Minnesota Emergency Response  
Commission  
B5 State Capitol Bldg.  
75 Constitution Ave.  
St. Paul, MN 55155  
(612)643-3000

**Mississippi - 1,B**

Mr. John David Burns  
Mississippi Emergency Response  
Commission  
Mississippi Emergency Management  
Agency P.O. Box 4501  
Jackson, MS 39296-4501  
**certified mail only:**  
1410 Riverside Drive  
Jackson, MS 39202  
(601)960-9000

**Montana - 1,A**

Mr. Tom Ellerhoff, Co-Chairman  
Montana Emergency Response Commission  
Environmental Sciences Division  
Department of Health & Environmental  
Sciences  
Capitol Station  
Cogswell Building A-107  
P.O. Box 200901  
Helena, MT 59620-0901  
(406)444-3948

**Nebraska - 1,B**

Mr. John Steinauer, Coordinator  
State of Nebraska Department of  
Environmental Quality  
P.O. Box 98922  
Lincoln, NE 68509-8922  
**certified mail only:**  
1200 N Street, Suite 400  
Lincoln, NE 68508  
(402)471-4251

**New Jersey - 1,C**

Ms. Shirlee Schiffman  
Department of Environmental Protection  
and Energy  
Division of Environmental Quality,  
Safety, Health, and Analytical Programs  
SARA Title III Section 313  
Bureau of Hazardous Substances  
Information  
401 E. State St. (CN-405)  
Trenton, NJ 08625  
(609)984-3219

**New Mexico - Z(w/characteristics), B  
(w/site diagram)**

Mr. Max Johnson, Title III Coordinator  
New Mexico Emergency Response  
Commission  
Chemical Safety Office, Emergency  
Management Bureau  
P.O. Box 1628  
Santa Fe, NM 87504-1628  
**certified mail only:**  
4491 Cerillos Roads  
Santa Fe, NM 87504  
(505)827-9223

**New York - 1,A**

Mr. William Miner  
New York Emergency Response  
Commission New York State Department  
of Environmental Conservation  
Bureau of Spill Prevention and  
Response 50 Wolf Road/Room 340  
Albany, NY 12233-3510  
(518)457-4107

**Neveda - 1,B**

(702)687-5872  
Ms. Joiaine Johnson (313)  
Bureau Chief, Chemical Hazard  
Management, Kathy Esparza (311)  
(702)687-7374  
Ginny Capucci (312)  
(702)687-4290  
333 W. Nye Lane  
Carson City, NV 89710

**New Hampshire - 1,B**

Lee Kimball  
New Hampshire State Emergency  
Management Agency, Title III Program  
State Office Park South  
107 Pleasant Street  
Concord, NH 03301  
(601)271-2231

**North Carolina - 1,B**

Ms. Emily Kilpatrick  
North Carolina Emergency Response  
Commission  
North Carolina Division of Emergency  
Management  
116 West Jones Street  
Raleigh, NC 27603-1335  
(919)733-3865

**North Dakota - 1,B**

Mr. Douglas Friez  
Noah Dakota Emergency Response  
Commission  
Division of Emergency Management  
P.O. Box 5511  
Bismarck, ND 58502-5511  
(701)224-2100



**Ohio - 2(> 10 chemicals) or  
1(10 chemicals) B or D (w site map)**

Mr. Mark Bessel  
Ohio EPA  
Division of Air Pollution Control  
1800 Watermark Drive  
Columbus, OH 43215  
(614) 644-2267

**Oklahoma - 1,A**

Mr. Monty Elder  
Department of Environmental Quality  
Support Scrviccs  
1000 N.E. 10th Street  
Oklahoma City, OK 73117-1212  
(405) 271-8056

**Oregon - 4,D**

Ms. Virginia Honeywell  
Oregon Emergency Response Commission  
c/o State Fire Marshall  
4760 Portland Road, N.E.  
Salem, OR 97305-1760  
(503) 378-3473

**Pennsylvania - 1, B(w/site plan)**

Mr. James Tinney  
Pennsylvania Emergency Management Council  
Bureau of Worker and Community  
Right-to-Know  
Room 1503  
Labor and Industry Building  
7th & Forster Streetss  
Harrisburg, PA 17120  
(717) 783-1826

**Puerto Rico 1.B(w/tier I)**

Mr. Denaro Toress  
Puerto Rico Emergency Responces  
Commissioner  
Title III-SARA Section 313  
Puerto Rico Environmental Quality Board  
Fernandez Junco Station  
P.O. Box 11488  
Santuree, PR 00910  
**certified mail only:**  
Environmental Quality, Board  
Emergency Response and Remedial Office  
National Plaza #431  
Ponee de Leon Avenue  
Hato Rey, PR 00917  
(809) 766-2823

**Rhode Island - 1,B**

Mr. John Aucott  
Rhode Island Department of  
Enviromental Management  
Division of Air Resources  
291 Promenade Street  
Providence, RI 02908-5767  
Attn: Toxic Release Inventory  
(401) 421-7333

**South Carolina - 2,B**

Mr. Michael Juras (313) Pete Saussy  
(311/312) (803) 935-6444  
South Carolina Department of Health  
and Environmental Control  
2600 Bull Street  
Columbia, SC 29201  
Attn: EPCRA Reporting  
(803) 935-6336

**South Dakota - 1,B**

Ms. Lee Ann Smith, Title III  
Coordinator South Dakota Emergency  
Responce Commission  
South Dakota Department of  
Enviroment and Natural Resources  
Joe Foss Building  
523 East Capitol  
Pierre, SD 57501-3181  
(605) 773-3296  
(800) 433-2288

**Tennessee - 1,A**

Ms. Betty Eaves  
Tennessee Emergency Response  
Commission  
Director, Tennessee Emergency  
Management  
Agency  
3041 Sidco Drive  
Nashville, TN 37204  
(615) 741-2986  
1-800-262-3300 (in Tennessee)  
1-800-258-3300 (out of state)

**Texas - 4,D**

Ms. Beck), Kurka, (313) Supervisor  
Office of Pollution Prevention and  
Recycling Texas Natural Resouces  
Conservation Commission  
Paula McKimley (311/312)  
(512) 834-6600  
P.O. Box 13087  
Austin, TX 78711-3087  
(512) 463-7869

**Utah - 1,A**

Mr. Darrell Chisholm  
Utah Hazardous Chemical Emergency  
Response Commission  
Utah Department of Environmental Quality  
Division of Environmental Response and  
Remediation  
168 North 1950 West  
Salt Lake City, UT 84116-4840  
(801)536-4100

**Vermont - 1,B**

Ms. Patty Jacobson  
Department of Health  
108 Cherry Street  
Burlington, VT 05402  
(802)865-7742

**Virginia**

Ms. Cathy Harris  
Virginia Emergency Response Council  
P.O. Box 10009  
Richmond, VA 23240-00009  
**certified mail only:**  
Virginia Department of Environmental  
Quality  
SARA Title III Program  
9th Floor  
629 E. Main St.  
Richmond, VA 23219  
(804)225-2513

**Virgin Islands**

Mr. Roy E. Aetams, Commissioner  
Department of Planning and  
Natural Resources  
U.S. Virgin Islands Emergency Response  
Commission  
Title III  
Nisky Center, Suite 231  
Charlotte Amalie  
St. Thomas, VI 00802  
(809)774-3320/Ext. 101 or 102

**Washington - 1(5 fire dept), B**

Ms Idell Hallsen, Supervisor  
Community Right-To-Know Unit  
Department of Ecology  
P.O. Box 47659  
Olympia, WA 98504-7659

**certified mail only:**

300 Desmond Road  
Lacey, WA 98503  
(206)438-7252

**West Virginia - 1,B**

Mr. Carl L. Bradford, Director  
West Virginia Emergency Response  
Commission  
West Virginia Office of Emergency  
Services Main Capital Building 1,  
Room EB-80  
Charleston, WV 25305-0360  
(304)348-5380

**Wisconsin - 1,B(w/site plan)**

Department of Natural Resources  
101 South Webster  
P.O. Box 7921  
Madison, WI 53707  
Attn: Chris Bacon  
(608)266-3232

**Wyoming - 1 (6 fire local dept),B**

Joe Daly  
Wyoming Emergency Response  
Commission  
Wyoming Emergency Management Agency  
Department of Environmental Quality  
Herehler Building 4 West  
122 West 25th St.  
P.O. Box 1708  
Cheyenne, WY 82002  
(307)777-7566

## **Appendix 4 Tier II Form and Instructions**

### **TIER TWO INSTRUCTIONS**

#### **GENERAL INFORMATION**

**Submission of this Tier Two form is required when requested under Title III of the Superfund Amendments and Reauthorization Act of 1986, Section 312, Public Law 99-499, codified at 42 U.S.C. 11022. The purpose of this Tier Two form is to provide state and local officials and the public with specific information on hazardous chemicals present at your facility during the past year.**

#### **Certification**

The owner or operator or the officially designated representative of the owner or operator must certify that all information included in the Tier Two submission is true, accurate, and complete. On the first page of the Tier Two report, enter your full name and official title. Sign your name and enter the current date. Also, enter the total number of pages included in the Confidential and Non-Confidential Information Sheets as well as all attachments. An original signature is required on at least the first page of the submission. Submissions to the SERC, LEPC, and fire department must each contain an original signature on at least the first page. Subsequent pages must contain either an original signature, a photocopy of the original signature, or a signature stamp. Each page must contain the date on which the original signature was affixed to the first page of the submission and the total number of pages in the submission.

You must provide all information requested on this form to fulfill Tier Two reporting requirements. This form may also be used as a worksheet for completing the Tier One form or may be submitted in place of the Tier One form.

**Who Must Submit This Form**

Section 312 of Title III requires that the owner or operator of a facility submit this Tier Two form if so requested by a state emergency planning commission, a local emergency planning committee, or a fire department with jurisdiction over the facility.

This request may apply to the owner or operator of any facility that is required, under regulations implementing the Occupational Safety and Health Act of 1970, to prepare or have available a material safety data sheet (MSDS) for a hazardous chemical present at the facility. MSDS requirements are specified in the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, found in Title 29 of the Code of Federal Regulations at 1910.1200. This form does not have to be submitted if all of the chemicals located at your facility are excluded under Section 311(e) of Title III.

**What Chemicals Are Included**

If you are submitting Tier Two forms in lieu of Tier One, you must report the required information on the Tier Two form for each hazardous chemical present at your facility in quantities equal to or greater than established threshold amounts (discussed below), unless the chemicals are excluded under Section 311(e) of Title III. Hazardous chemicals are any substance for which your facility must maintain an MSDS under OSHA's Hazard Communication Standard.

If you elect to submit Tier One rather than Tier Two, you may still be required to submit Tier Two information upon request.

## **What Chemicals Are Excluded**

Section 311(e) of Title III excludes the following substances:

(i) Any food, food additive, color additive, drug, or cosmetic regulated by the Food and Drug Administration;

(ii) Any substance present as a solid in any manufactured item to the extent exposure to the substance does not occur under any normal conditions of use;

(iii) Any substance to the extent it is used for personal, family or household purposes, or is present in the same form and concentration as a product packaged for distribution and use by the general public;

(iv) Any substance to the extent it is used in a research laboratory or a hospital or other medical facility under the direct supervision of a technically qualified individual;

(v) Any substance to the extent it is used in routine agricultural operations or is a fertilizer held for sale by a retailer to the ultimate customer.

OSHA regulations, Section 1910.1200(b), stipulate exemptions from the requirement to prepare or have available an MSDS.

## **Reporting Thresholds**

Minimum thresholds have been established for Tier One/Tier Two reporting under Title III, Section 12. These thresholds are as follows:

For extremely hazardous substances (EHSs) designated under section 302 of Title III, the reporting threshold is 500 pounds (or 227 kg.) or the threshold planning quantity (TPQ), whichever is lower:

For all other hazardous chemicals for which facilities are required to have or prepare an MSDS, the minimum reporting threshold is 10,000 pounds (or 4,540 kg.). You need to report hazardous chemicals that were present at your facility at any time during the previous calendar year at levels that equal or exceed these thresholds. For instructions on threshold determinations for components of mixtures, see "What About Mixtures?" on page 2 of these instructions.

A requesting official may limit the responses required under Tier Two by specifying particular chemicals or groups of chemicals. Such requests apply to hazardous chemicals regardless of established thresholds.

## NOTIFICATION, REPORTING, AND RECORDKEEPING

### **INSTRUCTIONS**

**Please read these instructions carefully. Print or type all responses.**

#### **When To Submit This Form**

Owners or operators of facilities that have hazardous chemicals on hand in quantities equal to or greater than set threshold levels must submit either Tier One or Tier Two forms by March 1.

If you choose to submit Tier One, rather than Tier Two, be aware that you may have to submit Tier Two information later, upon request of an authorized official. You must submit the Tier Two form within 30 days of receipt of a written request.

#### **Where To Submit This Form**

Send either a completed Tier One form or Tier Two form(s) to each of the following organizations:

1. Your State Emergency Response Commission.
2. Your Local Emergency Planning Committee.
3. The fire department with jurisdiction over your facility.

If a Tier Two form is submitted in response to a request, send the completed form to the requesting agency.

#### **Penalties**

Any owner or operator who violates any Tier Two reporting requirements shall be liable to the United States for a civil penalty of up to \$25,000 for each such violation. Each day a violation continues shall constitute a separate violation.

If your Tier Two responses require more than one page use additional forms and fill in the page number at the top of the form.

**Reporting Period**

Enter the appropriate calendar year, beginning January 1 and ending December 31.

**Facility Identification**

Enter the full name of your facility (and company identifier where appropriate).

Enter the full street address or state road. If a street address is not available, enter other appropriate identifiers that describe the physical location of your facility (e.g., longitude and latitude). Include city, state, and zip code. Enter the primary Standard Industrial Classification (SIC) code and the Dun & Bradstreet number for your facility. The financial officer of your facility should be able to provide the Dun & Bradstreet number. If your firm does not have this information, contact the state or regional office of Dun & Bradstreet to obtain your facility number or have one assigned.

**Owner/Operator**

Enter the owner's or operator's full name, mailing address, and phone number.

**Emergency Contact**

Enter the name, title, and work phone number of at least one local person or office who can act as a referral if emergency responders need assistance in responding to a chemical accident at the facility.

Provide an emergency phone number where such emergency chemical information will be available 24 hours a day, every day.

The requirement is mandatory. The facility must make some arrangement to ensure a 24 hour contact is available.

## **Identical Information**

Check the box indicating identical information, located below the emergency contacts on the Tier Two form, if the current chemical information being reported is identical to that submitted last year. Chemical descriptions, hazards, amounts, and locations must be provided in this year's form, even if the information is identical to that submitted last year.

## **Chemical Information: Description, Hazards, Amounts, and Locations**

The main section of the Tier Two form requires specific information on amounts and locations of hazardous chemicals, as defined in the OSHA Hazard Communication Standard.

If you choose to indicate that all of the information on a specific hazardous chemical is identical to that submitted last year, check the appropriate optional box provided at the right side of the storage codes and locations on the Tier Two form. Chemical descriptions, hazards, amounts, and locations must be provided even if the information is identical to that submitted last year.

What units should I use?

Calculate all amounts as weight in pounds. To convert gas or liquid volume to weight in pounds, multiply by an appropriate density factor.

What about mixtures?

If a chemical is part of a mixture, you have the option of reporting either the weight of the entire mixture or only the portion of the mixture that is a particular hazardous chemical (e.g., if a hazardous solution weighs 100 lbs. but is composed of only 5% of a particular hazardous chemical, you can indicate either 100 lbs. of the mixture or 5 lbs. of the chemical).

The option used for each mixture should be consistent with your Section 311 reporting.



Because EHSs are important to Section 303 planning, EHSs have lower thresholds. The amount of an EHS at a facility (both pure EHS substances and EHSs in mixtures) must be aggregated for purposes of threshold determination. It is suggested that the aggregation calculation be done as a first step in making the threshold determination. Once you determine whether a threshold for an EHS has been reached, you should report either the total weight of the EHS at your facility, or the weight of each mixture containing the EHS.

**Chemical Description**

Enter the Chemical Abstract Service registry number (CAS#). For mixtures, enter the CAS number of the mixture as a whole if it has been assigned a number distinct from its components. For a mixture that has no CAS number, leave this item blank or report the CAS numbers of as many constituent chemicals as possible.

## TIER TWO INSTRUCTIONS

If you are withholding the name of a chemical in accordance with criteria specified in Title III, Section 322, enter the generic chemical class or category that is structurally descriptive of the chemical (e.g., list toluene diisocyanate as organic isocyanate) and check the box marked Trade Secret. Trade secret information should be submitted to EPA and must include a substantiation. Please refer to EPA's final regulation on trade secrecy (53 FR 28772, July 29, 1988) for detailed information on how to submit trade secrecy claims.

2. Enter the chemical name or common name of each hazardous chemical.
3. Check box for ALL applicable descriptors: pure or mixture, and solid, liquid, or gas; and whether the chemical is or contains an EHS.
4. If the chemical is a mixture containing an EHS, enter the chemical name of each EHS in the mixture.

### *Example:*

You have pure chlorine gas on hand, as well as two mixtures that contain liquid chlorine. You write "chlorine" and enter the CAS#. Then you circle "pure" and "mix" -- as well as "liquid" and "gas".

### **Physical And Health Hazards**

For each chemical you have listed, check all the physical and health hazard boxes that apply. These hazard categories are defined in 40 CFR 370.2. The two health hazard categories and three physical hazard categories are a consolidation of the 23 hazard categories defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**HAZARD CATEGORY COMPENSATION FOR  
REPORTING UNDER SECTIONS 311 AND 312**

EPA's hazard categories	OSHA's hazard categories
Fire Hazard .....	Flammable Combustion Liquid Pyrophoric Oxidizer
Sudden Release of Pressure .....	Explosive Compressed Gas
Reactive .....	Unstable Reactive Organic Peroxide Water Reactive
Immediate (Acute) Health Hazards .....	Highly Toxic Toxic Irritant Sensitizer Corrosive Other hazardous chemicals with an adverse effect with short term exposure
Delayed (Chronic) Health Hazard .....	Carcinogens Other hazardous chemicals with an adverse effect with long term exposure

**Maximum Amount**

1. For each hazardous chemical, estimate the greatest amount present at your facility on any single day during the reporting period.
2. Find the appropriate range value code in Table I.
3. Enter this range value as the Maximum Amount.

**Table I REPORTING RANGES**

Range Value	Weight Range in Pounds	
	From	To
01	0	99
02	100	999
03	1,000	9,999
04	10,000	99,999
05	100,000	999,999
06	1,000,000	9,999,999
07	10,000,000	49,999,999
08	50,000,000	99,999,999
09	100,000,000	499,999,999
10	500,000,000	999,999,999
11	1 billion	higher than 1 billion

If you are using this form as a worksheet for completing Tier One, enter the actual weight in pounds in the shaded space below the response blocks. Do this for both Maximum Amount and Average Daily Amount.

*Example:*

You received one large shipment of a solvent mixture last year. The shipment filled five 5,000-gallon storage tank. You know that the solvent contains 10% benzene, which is a hazardous chemical.

You figure that 10% of 25,000 gallons is 2,500 gallons. You also know that the density of benzene is 7.29 pounds per gallon, so you multiply 2,500 by 7.29 to get a weight of 18,225 pounds.

Then you look at Table I and find that the range value 04 corresponds to 18,225. You enter 04 as the Maximum Amount.

(If you are using the form as a worksheet for completing a Tier One form, you should write 18,225 in the shaded area.)

**Average Daily Amount**

1. For each hazardous chemical, estimate the average weight in pounds that was present at your facility during the year.  
To do this, total all daily weights and divide by the number of days the chemical was present on the site.
2. Find the appropriate range value in Table I.
3. Enter this range value as the Average Daily Amount.

*Example:*

The 25,000-gallon shipment of solvent you received last year was gradually used up and completely gone in 315 days. The sum of the daily volume levels in the tank is 4,526,000 gallons. By dividing 4,536,000 gallons by 315 days on-site, you calculate an average daily amount of 14,400 gallons.

You already know that the solvent contains 10% benzene, which is a hazardous chemical. Since 10% of 14,400 is 1,440, you figure that you had an average of 1,440 gallons of benzene. You also know that the density of benzene is 7.29 pounds per gallon, so you multiply 1,440 by 7.29 to get a weight of 10,500 pounds.

Then you look at Table I and find that the range value 04 corresponds to 10,500. You enter 04 as the Average Daily Amount.

NOTIFICATION, REPORTING, AND RECORDKEEPING

(If you are using the form as a worksheet for completing a Tier One form, you should write 10,500 in the shaded area.)

**Number Of Days On-Site**

Enter the number of days that the hazardous chemical was found on-site.

*Example:*

The solvent composed of 10% benzene was present for 315 days at your facility. Enter 315 in the space provided.

**Storage Codes and Storage Locations**

List all non-confidential chemical locations in this column, along with storage types/conditions associated with each location. Please note that a particular chemical may be located in several places around the facility. Each row of boxes followed by a line represents a unique location for the same chemical.

Storage Codes: Indicate the types and conditions of storage present.

- a. Look at Table II. For each location, find the appropriate storage type and enter the corresponding code in the first box
- b. Look at Table III\*. For each storage type, find the appropriate storage types for pressure and temperature conditions. Enter the applicable pressure code in the second box. Enter the applicable temperature code in the third box.

**Table II -- STORAGE TYPES**

CODES	Types of Storage
A	Above ground tank
B	Below ground tank
C	Tank inside building
D	Steel drum
E	Plastic or non-metallic drum
F	Can
G	Carboy
H	Silo
I	Fiber drum
J	Bag
K	Box
L	Cylinder
M	Glass bottles or jugs
N	Plastic bottles or jugs
O	Tote bin
P	Tank wagon
Q	Rail car
R	Other

**Table III -- TEMPERATURE AND PRESSURE CONDITIONS**

CODES	Storage Conditions
	(PRESSURE)
1	Ambient pressure
2	Greater than ambient pressure
3	Less than ambient pressure
	(TEMPERATURE)
4	Ambient temperature
5	Greater than ambient temperature
CODES	Storage Conditions
6	Less than ambient temperature but not cryogenic
7	Cryogenic conditions

*Example:*

The benzene in the main building is kept in a tank inside the building, at ambient pressure and less than ambient temperature. Table II shows you that the code for a tank inside a building is C. Table III shows you that code for ambient pressure is 1, and the code for less than ambient temperature is 6.

You enter: **C 1 6**

**Storage Locations:** Provide a brief description of the precise location of the chemical, so that emergency responders can locate the area easily. You may find it advantageous to provide the optional site plan or site coordinates as explained below.

For each chemical, indicate at a minimum the building or lot. Additionally, where practical, the room or area may be indicated. You may respond in narrative form with appropriate site coordinates or abbreviations. If the chemical is present in more than one building, lot, or area location, continue your responses down the page as needed. If the chemical exists everywhere at the plant site simultaneously, you may report that the chemical is ubiquitous at the site.

**Optional Attachments:** If you choose to attach one of the following, check the appropriate Attachments box at the bottom of the Tier Two form.

- A site plan with site coordinates indicated for buildings, lots, areas, etc., throughout your facility.
- A list of site coordinate abbreviations that correspond to buildings, lots, areas, etc., throughout your facility.
- A description of dikes and other safeguard measures for storage locations throughout your facility.

*Example:*

You have benzene in the main room of the main building, and in tank 2 in tank field 10. You attach a site plan with coordinates as follows: main building = G-2, tank field 10 = B-6. Fill in the Storage Location as follows:

B-6 (Tank 2)            G-2 (Main Room)

**Confidential Information**

Under Title III, Section 324, you may elect to withhold location information on a specific chemical from disclosure to the public. If you choose to do so:

Enter the word "confidential" in the Non-Confidential Location section of the Tier Two form on the first line of the storage location.

On a separate Tier Two Confidential Location information Sheet, enter the name and CAS# of each chemical for which you are keeping the location confidential. Enter the appropriate location and storage information, as described above for non-confidential locations. Attach the Tier Two Confidential Location information Sheet to the Tier Two form. This separates confidential locations from other information that will be disclosed to the public.

TIER TWO INSTRUCTIONS

Revised November 1990

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Form Approved OMB No. 2050-0072

<b>Tier Two</b> <b>EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY</b> <i>Specific Information by Chemical</i>	<b>Facility Identification</b> Name _____ Street _____ City _____ County _____ State _____ Zip _____ SIC Code [ ][ ][ ][ ][ ] Dun & Brad Number [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]		<b>Owner/Operator Name</b> Name _____ Phone ( ) _____ Mail Address _____		
	FOR OFFICIAL USE ONLY ID # _____ Date Received _____		<b>Emergency Contact</b> Name _____ Title _____ Phone ( ) _____ 24 Hr. Phone ( ) _____ Name _____ Title _____ Phone ( ) _____ 24 Hr. Phone ( ) _____		
Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19____ <input type="checkbox"/> Check if information below is identical to the information submitted last year.					
<b>Chemical Description</b> CAS [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Trade Secret <input type="checkbox"/> Chem Name _____ Check all that apply: Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS EHS Name _____		<b>Physical and Health Hazards</b> (check all that apply) Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/>		<b>Inventory</b> Max. Daily Amount (code) [ ][ ][ ] Avg. Daily Amount (code) [ ][ ][ ] No. of Days On-site (days) [ ][ ][ ]	
CAS [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Trade Secret <input type="checkbox"/> Chem Name _____ Check all that apply: Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS EHS Name _____		Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/>		Max. Daily Amount (code) [ ][ ][ ] Avg. Daily Amount (code) [ ][ ][ ] No. of Days On-site (days) [ ][ ][ ]	
CAS [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Trade Secret <input type="checkbox"/> Chem Name _____ Check all that apply: Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> EHS EHS Name _____		Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic) <input type="checkbox"/>		Max. Daily Amount (code) [ ][ ][ ] Avg. Daily Amount (code) [ ][ ][ ] No. of Days On-site (days) [ ][ ][ ]	
<b>Certification</b> (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through _____ and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.					
Name and official title of owner/operator OR owner/operator's authorized representative _____ Signature _____ Date signed _____				<b>Optional Attachments</b> <input type="checkbox"/> I have attached a site plan. <input type="checkbox"/> I have attached a list of site coordinate abbreviations. <input type="checkbox"/> I have attached a description of dikes and other safeguard measures.	

TIER TWO INSTRUCTIONS

NOTIFICATION, REPORTING, AND RECORDKEEPING

<b>Tier Two</b> <b>EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY</b> <i>Specific Information by Chemical</i>	<b>Facility Identification</b> Name _____ Street _____ City _____ County _____ State _____ Zip _____ SIC Code [ ][ ][ ][ ][ ] Dun & Brad Number [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]		<b>Owner/Operator Name</b> Name _____ Phone ( ) _____ Mail Address _____	
	FOR OFFICIAL USE ONLY ID # _____ Date Received _____		<b>Emergency Contact</b> Name _____ Title _____ Phone ( ) _____ 24 Hr. Phone ( ) _____ Name _____ Title _____ Phone ( ) _____ 24 Hr. Phone ( ) _____	
Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 19____ <input type="checkbox"/> Check if information below is identical to the information submitted last year.				
<b>Confidential Location Information Sheet</b> CAS # [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Chem Name _____		<b>Storage Codes and Locations (Confidential)</b> Container Type _____ Pressure _____ Temperature _____ Storage Locations _____		Options <input type="checkbox"/>
CAS # [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Chem Name _____		Container Type _____ Pressure _____ Temperature _____ Storage Locations _____		Options <input type="checkbox"/>
CAS # [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] Chem Name _____		Container Type _____ Pressure _____ Temperature _____ Storage Locations _____		Options <input type="checkbox"/>
<b>Certification</b> (Read and sign after completing all sections) I certify under penalty of law that I have personally examined and am familiar with the information submitted in pages one through _____ and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.				
Name and official title of owner/operator OR owner/operator's authorized representative _____ Signature _____ Date signed _____				<b>Optional Attachments</b> <input type="checkbox"/> I have attached a site plan. <input type="checkbox"/> I have attached a list of site coordinate abbreviations. <input type="checkbox"/> I have attached a description of dikes and other safeguard measures.

NOTIFICATION, REPORTING, AND RECORDKEEPING