TABLE OF CONTENTS

	F	age
1.	INTRODUCTION	.1-1
2.	COMPONENTS OF CHRIS	.2-1
	2.1 HAZARDOUS CHEMICAL DATA	
3.	EXPLANATION OF TERMS	.3-1
	1. RESPONSE TO DISCHARGE	.3-2 .3-3 .3-6 .3-7 .3-8 .3-10
4.	OTHER INFORMATION SYSTEMS	.4-1
	4.1 CHEMICAL TRANSPORTATION EMERGENCY CENTER (CHEMTREC) 4.2 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 4.3 INTERNATIONAL MARITIME ORGANIZATION (IMO) 4.4 DEPARTMENT OF TRANSPORTATION (DOT) 4.5 OHM-TADS (EPA) 4.6 POISON CONTROL CENTERS 4.7 ASSOCIATION OF AMERICAN RAILROADS (AAR)	.4-1 .4-1 .4-1 .4-2 .4-2
5.	CONVERSION FACTORS	.5-1
6.	SELECTED PROPERTIES OF FRESH WATER, SEA WATER, ICE, AND AIR	.6-1
7.	GUIDE TO COMPATIBILITY OF CHEMICALS	.7-1
8.	INDEX OF SYNONYMS	.8-1
q	INDEX OF CODES	9-1

10-1
10-1
10-2
10-3
10-3
10-4
10-4

1. INTRODUCTION

The Chemical Hazards Response Information System (CHRIS) is designed to provide information needed for decision-making by responsible Coast Guard personnel during emergencies that occur during the water transport of hazardous chemicals. CHRIS also provides much information that can be used by the Coast Guard in its efforts to achieve better safety procedures and so prevent accidents.

CHRIS consists of a handbook or manual, a hazard assessment computer system (HACS), and technical support personnel located at Coast Guard headquarters. These components and their relations to one another are described in Section 2 of this manual.

2. COMPONENTS OF CHRIS

2.1 HAZARDOUS CHEMICAL DATA

This manual is the cornerstone of CHRIS. For each substance, it lists the specific chemical, physical, and biological data needed for the preparation and use of the other components of the system. The manual can also be used after the initial response action, when there is sufficient time to use more detailed information.

The Hazardous Chemical Data Manual is intended for use primarily by the On-Scene Coordinator (OSC) and by Regional Response Teams for devising, evaluating, and carrying out response plans.

2.2 HAZARD ASSESSMENT COMPUTER SYSTEM

The Hazard Assessment Computer System (HACS) permits trained specialists to obtain very detailed hazard evaluations quickly, when requested by OSC personnel, and can be accessed through the National Response Center.

3. EXPLANATION OF TERMS

This section explains the special terms used in the data sheets, gives the sources of specific items, and includes other information that will be useful to the reader in interpreting the data. The paragraphs below are keyed to the relevant portions by the subheading and number used in the data sheets.

The expression "**Not pertinent**" means that the data item either has no real meaning (such as the flash point of a nonflammable chemical) or is not required for assessing a hazardous situation. The expression "**Currently not available**" means that the information sought was not found in the general or specialized data sources listed in Section 10 of this manual. In a few cases where important data were not available, values were estimated by usually reliable procedures; all such values are labeled "**(est.)**". If more accurate values for those items are found, they will be included in later revisions.

The **name** used for each of the chemicals included in the CHRIS manuals is either (1) that specified in the Code of Federal Regulations, Title 46, Part 151 or (2) a common name for those chemicals not now regulated by Sub chapters O and D but known to be hazardous during shipment. The data sheets are arranged in alphabetic order by chemical name, not by the 3-letter code.

The **3-letter code** is designed to facilitate correct identification of chemicals in oral or written communication. The code should be used only *in addition* to the compound name; it should not be used alone. For transmitting the code, use the phonetic alphabet given in the "International Code of Signals."

1. RESPONSE TO DISCHARGE

In every case of a discharge or leak, it is obvious that an effort should be made to reduce, stop, or contain the flow of material at its source if this can be done safely. The purpose of the terms used in this section is to describe in a general way the cautionary and corrective responses that are described in greater detail in the Response Methods Handbook.

- "Issue warning" is used when the chemical is a poison, has a high flammability, is a water contaminant, is an air contaminant (so as to be hazardous to life), is an oxidizing material, or is corrosive.
- "Restrict access" is used only for those chemicals that are unusually and immediately hazardous to personnel unless they are protected properly by respirators, protective clothing, etc.
- "Evacuate area" is used primarily for unusually poisonous chemicals or those that ignite easily.
- "Mechanical containment" is used for water-insoluble chemicals that float and do not evaporate readily.

- "Should be removed" is used for chemicals that cannot be allowed to disperse
 because of their harmful effect on humans or on the ecological system in
 general. The term is not used unless there is a reasonable chance of
 preventing dispersal, after a discharge or leak, by chemical and physical
 treatment.
- "Chemical and physical treatment" is recommended for chemicals that can be removed by skimming, pumping, dredging, burning, neutralization, absorption, coagulation, or precipitation. The corrective response may also include the use of dispersing agents, sinking agents, and biological treatment.
- "Disperse and flush" is used for chemicals that can be made non-hazardous to humans by simple dilution with water. In a few cases the response is indicated even when the compound reacts with water because, when proper care is taken, dilution is still the most effective way of removing the primary hazard.

2. CHEMICAL DESIGNATIONS

- **2.1 Coast Guard Compatibility Classification** An entry is made when the chemical has been assigned to one of the 43 cargo groups listed in Code of Federal Regulations, Title 46, Part 150, "Compatibility of Cargoes." Appropriate parts of these regulations are included in this manual. Chemicals included in the regulation were assigned to a group by the Cargo and Hazardous Materials Standards Division, Coast Guard Headquarters. If the chemical is not a liquid carried in bulk in ships' tanks, this data item is "Not listed."
- **2.2 Chemical Formula** This has been limited to a commonly used one-line formula. In the case of some organic compounds it has not been possible to represent chemical structure within such a limitation.
- **2.3 IMO/United Nations Numerical Designation** The designation is that of the "International Maritime Dangerous Goods Code" published by the International Maritime Organization (IMO), London, 1977.
- **2.4 Department of Transportation Identification Number** This is an identification number assigned by the Department of Transportation to aid in categorizing hazards and recommended responses. The ID's can be located in the Hazardous Materials Table, part 172.101 of 49 CFR.
- **2.5 Chemical Abstracts Services Registry Number** The unique identification number assigned each compound registered with the Chemical Abstracts Service (CAS) is listed to aid in quick identification of the compound.
- **2.6 NAERG Guide Number** The number of the guide in the North American Emergency Response Guidebook listing specific emergency response actions for a particular CHRIS chemical. The 1996 edition of the guidebook was used in the preparation of this edition of the CHRIS manual.

2.7 Standard Industrial Trade Classification – The five digit code identifying the chemical's commodity category per revision 3 of the subject classification. These codes are compatible with the International Harmonized System codes used in foreign trade.

3. HEALTH HAZARDS

- **3.1 Personal Protective Equipment** The items listed are those recommended by (a) manufacturers, either in technical bulletins or in Material Safety Data Sheets, (b) the Chemical Manufacturers Association, or (c) the National Safety Council, for use by personnel while responding to fire or accidental discharge of the chemical. They are intended to protect the lungs, eyes, and skin. Safety showers and eyewash fountains are considered to be important protective equipment for the handling of almost all chemicals; they are not usually listed.
- **3.2 Symptoms Following Exposure** These are brief descriptions of the effects observed in humans when the vapor (gas) is inhaled, when the liquid or solid is ingested (swallowed), and when the liquid or solid comes in contact with the eyes or skin.
- **3.3 Treatment for Exposure** "First-aid" procedures are recommended. They deal with exposure to the vapor (gas), liquid, or solid and include inhalation, ingestion (swallowing) and contact with eyes or skin. The instruction "Do NOT induce vomiting" is given if an unusual hazard is associated with the chemical being sucked into the lungs (aspiration) while the patient is vomiting. "Seek medical attention" or "Call a doctor" is recommended in those cases where only competent medical personnel can treat the injury properly. In all cases of human exposure, seek medical assistance as soon as possible.
- **3.4 Threshold Limit Value Time Weighted Average** -The Threshold Limit Value Time Weighted Average (TLV-TWA) is usually expressed in units of parts per million (ppm) i.e., the parts of vapor (gas) per million parts of contaminated air by volume at 25°C (77°F) and one atmosphere pressure. For a chemical that forms a fine mist or dust, the concentration is given in milligrams per cubic meter (mg/m³). The TLV is defined as the concentration of the substance in air that can be breathed for five consecutive eight-hour workdays (40-hour work week) by most people without adverse effect (American Conference of Governmental Industrial Hygienists, "Threshold Limit Values for Substance in Workroom Air, Adopted by ACGIH"). As some people become ill after exposure to concentrations lower than the TLV, this value cannot be used to define exactly what is a "safe" or "dangerous" concentration.

No entry appears when the chemical is a mixture; it is possible to calculate the TLV for a mixture only when the TLV for each component of the mixture is known and the composition of the mixture by weight is also known.

3.5 Threshold Limit Value - Short-Term Exposure Limits - The parts of vapor (gas per million parts of contaminated air by volume at 25°C (77°F) and one atmosphere pressure is given. The limits are given in milligrams per cubic meter

for chemicals that can form a fine mist or dust. The values given are the maximum permissible average exposures for the time periods specified.

- **3.6 Threshold Limit Value Ceiling Value** The parts of vapor (gas per million parts of contaminated air by volume at 25°C (77°F) and one atmosphere pressure is given. The limits are given in milligrams per cubic meter for chemicals that can form a fine mist or dust. The values given are for a concentration that is not to be exceeded at any time.
- **3.7 Toxicity by Ingestion** The Grade and corresponding LD $_{50}$ value are those defined by the National Academy of Sciences, Committee on Hazardous Materials, "Evaluation of the Hazard of Bulk Water Transportation of Industrial Chemicals, A Tentative Guide," Washington, D.C., 1972. Data were also collected from other sources and converted to the appropriate Grade before entry in this manual. The term LD $_{50}$ signifies that about 50% of the animals given the specified dose by mouth will die. Thus, for a Grade 4 chemical (below 50 mg/kg) the toxic dose for 50% of animals weighing 70 kg (150 lb) is 70 X 50 = 3500 mg = 3.5 g, or less than 1 teaspoonful; it might be as little as a few drops. For a Grade 1 chemical (5 to 15g/k g), the LD $_{50}$ would be between a pint and a quart for a 150-lb man. All LD $_{50}$ values have been obtained using small laboratory animals such as rodents, cats, and dogs. The substantial risks taken in using these values for estimating human toxicity are the same as those taken when new drugs are administered to humans for the first time.
- **3.8 Toxicity by Inhalation** Similar to the Toxicity by Ingestion entry, except that the route of exposure is inhalation instead of ingestion. Units and definition of units are the same.
- **3.9 Chronic Toxicity** Where there is evidence that the chemical can cause cancer, mutagenic effects, teratogenic effects, or a delayed injury to vital organs such as the liver or kidney, a qualitative description of the effect is given.
- **3.10 Vapor (Gas) Irritant Characteristics** The most appropriate of five statements listed below is given. Source: National Academy of Sciences, Committee on Hazardous Materials, "Evaluation of the Hazard of Bulk Water Transportation of Industrial Chemicals, A Tentative Guide," Washington, D.C., 1972.)
 - (1) Vapors are nonirritating to eyes and throat.
 - (2) Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.
 - (3) Vapors cause moderate irritation such that personnel will find high concentrations unpleasant. The effect is temporary.
 - (4) Vapors are moderately irritating such that personnel will not usually tolerate moderate or high concentrations.
 - (5) Vapors cause severe irritation of eyes and throat and can cause eye and lung injury. They cannot be tolerated even at low concentrations.

- **3.11 Liquid or Solid Irritant Characteristics** The most appropriate of the following five statements is given (same source as 5.8 above):
 - (1) No appreciable hazard. Practically harmless to the skin.
 - (2) Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of skin.
 - (3) Causes smarting of the skin and first-degree burns on short exposure; may cause second-degree burns on long exposure.
 - (4) Fairly severe skin irritant. May cause pain and second-degree burns after a few minutes' contact.
 - (5) Severe skin irritant. Causes second- and third-degree burns on short contact and is very injurious to the eyes.
- **3.12 Odor Threshold** This is the lowest concentration in air that most humans can detect by smell. The value cannot be relied on to prevent over-exposure, because human sensitivity to odors varies over wide limits, some chemicals cannot be smelled at toxic concentrations, odors can be masked by other odors, and some compounds rapidly deaden the sense of smell.
- **3.13 IDLH Value** The Immediately Dangerous to Life and Health Value This concentration represents a maximum level from which one could escape within 30 minutes without any escape-impairing symptoms or any irreversible health effects. The concentrations are reported in either parts per million (ppm) or milligrams per cubic meter (mg/m³).
- **3.14 OSHA Permissible Exposure Limit Time Weighted Average** Similar to the definition of the TLV-TWA above, except that this limit has been promulgated by the Occupational Safety and Health Agency.
- **3.15 OSHA Permissible Exposure Limit Short Term Exposure Limit** Similar to the definition of the TVL-STEL above, except that this limit has been promulgated by the Occupational Safety and Health Agency.
- **3.16 OSHA Permissible Exposure Limit Ceiling** Similar to the definition of the TVL-Ceiling above, except that this limit has been promulgated by the Occupational Safety and Health Agency.
- **3.17 EPA AEGL** Acute Exposure Guideline information from the Environmental Protection Agency for the specific compound listed in the manual.

4. FIRE HAZARDS

- **4.1 Flash Point** This is defined as the lowest temperature at which vapors above a volatile combustible substance will ignite in air when exposed to a flame. Depending on the test method used, the values given are either Tag closed cup (C.C.) (ASTM D56) or Cleveland open cup (O.C.) (ASTM D93). The values, along with those in 6.2 and 6.7 below, give an indication of the relative flammability of the chemical. In general, the open cup value is about 10° to 15°F higher than the closed cup value.
- **4.2 Flammable Limits in Air** The percent concentration in air (by volume) is given for the lower (LFL) and upper (UFL) limit. The values, along with those in 6.1 and 6.7, give an indication of the relative flammability of the chemical. The limits are sometimes referred to as "lower explosive limit" (LEL) and "upper explosive limit" (UEL).
- **4.3 Fire Extinguishing Agents** The agents are listed in decreasing order of importance. The general capabilities of all agents are described in section 6, "Fire Protection Handbook," 18th ed., National Fire Protection Association, Boston, Mass., 1997.
- **4.4 Fire Extinguishing Agents Not to be Used** The agents listed must not be used because they react with the chemical and create an additional hazard. In some cases they are listed because they are ineffective in putting out the fire.
- **4.5 Special Hazards of Combustion Products** Some chemicals decompose or burn to give off toxic and irritating gases. Such gases may also be given off by chemicals that vaporize in the heat of a fire without either decomposing or burning. If no entry appears, the combustion products are thought to be similar to those formed by the burning of oil, gasoline, or alcohol; they include carbon monoxide (poisonous), carbon dioxide, and water vapor. The specific combustion products are usually not well known over the wide variety of conditions existing in fires; some may be hazardous.
- **4.6 Behavior in Fire** Any characteristic behavior that might increase significantly the hazard involved in a fire is described. The formation of dense smoke or flammable vapor clouds, and the possibility of polymerization and explosions is stated. Unusual difficulty in extinguishing the fire is also noted.
- **4.7 Ignition Temperature** This is the minimum temperature at which the material will ignite without a spark or flame being present. Along with the values in 6.1 and 6.2 above, it gives an indication of the relative flammability of the chemical. It is sometimes called the "autoignition temperature." The method of measurement is given in ASTM D-2155.
- **4.8 Electrical Hazard** The ease with which the chemical is ignited by electrical equipment is indicated by the Group and Class assignment made in the National Fire Protection Association, "Hazardous Chemicals Data," Boston, Mass., 1994 and in "Classification of Gases, Liquids, and Volatile Solids

Relative to Explosion-Proof Electrical Equipment," National Academy of Sciences, 1982. This information is available for relatively few chemicals, so an absence of data does not necessarily mean that the substance is not hazardous in the presence of electrical equipment.

- **4.9 Burning Rate** The value is the rate (in millimeters per minute) at which the depth of a pool of liquid decreases as the liquid burns. Details of measurement are given by D.S. Burgess, A. Strasser, and J. Grumer, "Diffusive Burning of Liquid Fuels in Open Trays," Fire Research Abstracts and Reviews, 3, 177 (1961).
- **4.10 Adiabatic Flame Temperature** The value is the temperature in degrees Fahrenheit of the flame when the material is burned under adiabatic conditions.
- **4.11 Stoichiometric Air to Fuel Ratio** The value is the ratio of air to the compound in question required for stoichiometric combustion. Since it is a ratio, the value is dimensionless.
- **4.12 Flame Temperature** The value is the temperature in degrees Fahrenheit of the flame produced by burning the compound under stoichiometric conditions without any rate controls.
- **4.13 Molar Ratio (Reactant to Product)** The number of moles of products formed, assuming complete combustion of a single mole of the chemical reactant. These ratios were calculated assuming there was sufficient oxygen available and that combustion did, in fact, go to completion.
- **4.14 Minimum Oxygen Concentration for Combustion (MOCC)** Information from NFPA-69 regarding the minimum percentage of oxygen required to support combustion of the subject compound. The results are reported for oxygen diluted with nitrogen (N₂) and/or carbon dioxide (CO₂).

5. CHEMICAL REACTIVITY

- **5.1 Reactivity with Water** The term "No reaction" means that no hazard results when the chemical reacts or mixes with water. Where a hazard does result, it is described.
- **5.2 Reactivity with Common Materials** This is limited to hazardous reactions with fuels and with common materials of construction such as metal, wood, plastics, cement, and glass. The nature of the hazard, such as severe corrosion or formation of a flammable gas, is described.
- **5.3 Stability During Transport** The term "Stable" means that the chemical will not decompose in a hazardous manner under the conditions of temperature, pressure, and mechanical shock that are normally encountered during shipment; the term does not apply to fire situations. Where there is a possibility of hazardous decomposition, an indication of the conditions and the nature of the hazard is given.

- **5.4 Neutralizing Agents for Acids and Caustics** In all cases involving accidental discharge, dilution with water may be followed by use of the agent specified, particularly if the material cannot be flushed away; the agent specified need not necessarily be used.
- **5.5 Polymerization** A few chemicals can undergo rapid polymerization to form sticky, resinous materials, with the liberation of much heat. The containers may explode. For these chemicals the conditions under which the reaction can occur are given. See Section 12.16 for quantitative data.
- **5.6 Inhibitor of Polymerization** The chemical names and concentrations of inhibitors added by the manufacturer to prevent polymerization are given.

6. WATER POLLUTION

6.1 Aquatic Toxicity - The form of data presentation used by the Environmental Protection Agency's "Oil and Hazardous Material-Technical Assistance Data System (OHM-TADS)" is used here. Reading from left to right and separated by slashes (/) are the following data:

Concentration in parts per million by weight (or milligrams per liter) at which the chemical was tested:

Time of exposure in hours;

Name of the aquatic species studied;

Effect observed; LC₅₀ means that approximately 50% of the fish will die under the conditions of concentrations and time given. TL_m (Median Tolerance Limit) means that approximately 50% of the fish will show abnormal behavior (including death) under the conditions of concentrations and time given; the term EC₅₀ (Effective Concentration₅₀) is used sometimes instead of TL_m; The kind of water used in the test (fresh or salt)

Some chemicals have been tested with many species of fish. Where the data were available, the data sheet cites one illustrative test in fresh water and one in salt water.

- **6.2 Waterfowl Toxicity** Very little information is available. In a few cases there is entered the LD_{50} value, which indicates the dose (in milligrams per kilogram of body weight) that is lethal to about half the waterfowl tested.
- **6.3 Biological Oxygen Demand (BOD)** Also called "biochemical oxygen demand," this is a standard way of describing how much oxygen dissolved in water is consumed by biological oxidation of the chemical during the stated period of time. The unit lb/lb indicates the pounds of oxygen consumed by each pound of chemical during the time stated. When given in percent, the values indicate the pounds of oxygen consumed by each 100 pounds of chemical during the time stated. If the percentage is followed by "(theor.)", it indicates the

pounds of oxygen theoretically required to completely oxidize 100 pounds of the chemical.

6.4 Food Chain Concentration Potential - If the chemical is consumed by fish, marine plants, waterfowl, etc., that are in turn eaten by other species, the substance may accumulate and ultimately be consumed by humans. Where this occurs, an indication of the potential hazard and its significance is given.

6.5 GESAMP Hazard Profile – A composite list of hazard profiles evaluated by the Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP). A summary of the legends used in the profile follows.

Bioaccumulation and Tainting

- + Bioaccumulated to significant extent and known to produce a hazard to aquatic life or human health.
- Z Bioaccumulated with attendant risk to aquatic organisms or human health, however, with short retention of the order of one week or less.
- T Liable to produce tainting of seafood.
- O No evidence to support one of the above ratings (+, Z, T)

	Damage to Living Resources	96 hr LC ₅₀
5	Extremely toxic	less than 0.01 mg/l
4	Highly toxic	less than 1 mg/l
3	Moderately toxic	1-10 mg/l
2	Slightly toxic	10-100 mg/l
1	Practically nontoxic	100-1000 mg/l
0	Non-hazardous	greater than 1000 mg/l
D	Substance likely to blanket the sea-bed	
BOD	Substance with oxygen demand	

	Hazard to Human Health by Oral Intake	LD_{50}
4	Highly hazardous	less than 5 mg/kg
3	Moderately hazardous	5-50 mg/kg
2	Slightly hazardous	50-500 mg/kg
1	Practically non-hazardous	500-5000 mg/kg
0	Non-hazardous	greater than 5000 mg/kg

Hazard to Human Health by Skin and Eye Contact or Inhalation

II Hazardous (severe irritation, strong sensitizer, lung injury, percutaneous toxicity, carcinogenic, or other specific long-term

adverse health effect.

- I Slightly hazardous (mild irritation, weak sensitizer)
- 0 Non-hazardous (non-irritant, not a sensitizer)

Reduction of Amenities

- XXX Highly objectionable because of persistency, smell or poisonous or irritant characteristics; as a result contaminated beaches liable to be closed; also used when there is clear evidence that the substance is a human carcinogen or that the substance has the potential to produce other serious specific long-term adverse health effects in humans.
- XX Moderately objectionable because of the above characteristics, but short-term effects leading only to temporary interference with use of beaches; also used when there is credible scientific evidence that the substance is an animal carcinogen but where there is no clear evidence to indicate that the material has caused cancer in humans, or when there is evidence from laboratory studies that the substance could have the potential to produce other serious specific long-term adverse health effects.
- X Slightly objectionable, non-interference with use of beaches.
- 0 No problem.

Ratings in brackets, (), indicate insufficient data available to the GESAMP experts on specific substances, hence extrapolation was required.

- N Not applicable (e.g. if gases)
- Indicates data were not available to the GESAMP Working Group.

7. SHIPPING INFORMATION

- **7.1 Grades or Purity** The grades USP (United States Pharmacopoeia) and CP (chemically pure) are quite pure. Where "Technical" or "Commercial" grades are given, the percent by weight of the pure chemical present is usually indicated. In a few cases the identity of the major impurities is given. If the properties of the less pure grades differ significantly from those of the pure substance, the differences in properties are described in general terms.
- **7.2 Storage Temperature** The range of temperatures at which the chemical is normally shipped in bulk by water transport is given. "Ambient" means the temperature of the surroundings.
- **7.3 Inert Atmosphere** The terms used are "inerted," "padded," "ventilated (forced)," "ventilated (natural)," and "no requirement." They are given when found in the Code of Federal Regulations, Title 46, beginning in Part 151.05.
- **7.4 Venting** The terms used are "open," "pressure-vacuum," and "safety relief" (same source as 9.3 above).

- **7.5 IMO Pollution Category** pollution classification applied to this compound by the International Maritime Organization.
- **7.6 Ship Type** The data entry refers to construction and containment requirements for ships being used to transport the chemical in question. The information is taken from the Code of Federal Regulations, Title 46, Part 154.
- **7.7 Barge Hull Type** The data entry refers to structural requirements for barge hulls being used to transport the chemical in question. The information is taken from the Code of Federal Regulations, Title 46, part 151.

8. HAZARD CLASSIFICATIONS

- **8.1 49 CFR Category** This is the hazard category specified in the Hazardous Materials Table, Part 172.101, Title 49 of the Code of Federal Regulations. The October 1, 1996 edition was used to prepare this version of the CHRIS.
- **8.2 49 CFR Class** The hazard class as specified in the Hazardous Materials Table, Title 49, Part 172.101 of the Code of Federal Regulations. The October 1, 1996 edition was used to prepare this version of the CHRIS.
- **8.3 49 CFR Package Group** The packaging group assigned to this chemical in the Hazardous Materials Table, Title 49, Part 172.101 of the Code of Federal Regulations. The October 1, 1996 edition was used to prepare this version of the CHRIS. Note that the packaging group is often dependent upon toxicity or flash point of the chemical. In those cases the reported packaging group is based upon the data value reported in CHRIS for that specific compound. The packaging group could be different if the purity of the material varies from that reported in CHRIS.
- **8.4 Marine Pollutant** This is a "Yes" or "No" entry, depending upon whether the chemical is listed in "List of Marine Pollutants", Appendix B to Part 172.101, Title 49 of the Code of Federal Regulations.
- **8.5 NFPA Hazard Classifications** The indicated ratings are given in "Fire Protection Guide on Hazardous Materials," 7th ed., National Fire Protection Association, Boston, Mass., 1978. The classifications are defined in Table 1 below. The symbol used in conjunction with these ratings is illustrated in Section 4.2.
- **8.6 EPA Reportable Quantity** The minimum quantity, in pounds, that must be reported to EPA in the event of a spill. This value is taken from "A List of Hazardous Substances and Reportable Quantities", Appendix A to Part 172.101, Title 49 of the Code of Federal Regulations.
- **8.7 EPA Pollution Category** An alphabetic descriptor identifying the potential pollution impact of the chemical. This descriptor is based upon the reportable quantity from category 8.6 above.

8.8 RCRA Waste Number – The 4 character identification number assigned to this chemical, if it is a waste, under the Resources Conservation and Recovery Act. This waste number was reported if the chemical is specifically listed.

8.9 EPA FWPCA List – A "Yes" or "No" entry depending upon whether the chemical is listed in the Federal Water Pollution Control Act.

TABLE 1 EXPLANATION OF NFPA HAZARD CLASSIFICATIONS

Health Hazard (blue)	Definition
4	Materials which on very short exposure could cause death or major residual injury even though prompt medical treatment were given
3	Materials which on short exposure could cause serious temporary or residual injury even though prompt medical treatment were given.
2	Materials which on intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical treatment is given.
1	Materials which on exposure would cause irritation but only minor residual injury even if no treatment is given.
0	Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.
Flammability (red)	
4	Materials which will rapidly or completely vaporize at atmospheric pressure and normal ambient temperature, or which are readily dispersed in air and which will burn readily.
3	Liquids and solids that can be ignited under almost all ambient temperature conditions
2	Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
1	Materials that must be preheated before ignition can occur.
0	Materials that will not burn.
Reactivity (yellow)	
4	Materials which in themselves are readily capable of detonation or explosive decomposition or reaction at normal temperatures and pressures.
3	Materials which in themselves are capable of detonation or explosive reaction but require a strong initiating source or which must be heated under confinement before initiation or which react explosively with water.
2	Materials which in themselves are normally unstable and readily undergo violent chemical change but do not detonate. Also materials which may react violently with water or which may form potentially explosive mixtures with water.
1	Materials which in themselves are normally stable, but which can become unstable at elevated temperatures and pressures or which may react with water with some release of energy but not violently.
0	Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.
Other (white)	
Ŵ	Materials which react so violently with water that a possible hazard results when they come in contact with water, as in a fire situation. Similar to Reactivity Classification 2.
Оху	Oxidizing material; any solid or liquid that readily yields oxygen or other oxidizing gas, or that readily reacts to oxidize combustible materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **9.1 Physical State at 15°C and 1 atm** The statement indicates whether the chemical is a solid, liquid, or gas after it has reached equilibrium with its surroundings at "ordinary" conditions of temperature and pressure.
- **9.2 Molecular Weight** The value given is the weight of a molecule of the chemical relative to a value of 12 for one atom of carbon.

The molecular weight is useful in converting from molecular units to weight units and in calculating the pressure, volume and temperature relationships for gaseous materials. The ratio of the densities of any two gases is approximately equal to the ratio of their molecular weights (see 9.10).

The molecular weights of mixtures can be calculated if both the identity and quantity of each component of the mixture are known. Because the composition of mixtures described in this manual is not known exactly, or because it varies from one shipment to another, no molecular weights are given for such mixtures.

9.3 Boiling Point at 1 atm - The value is the temperature of a liquid when its vapor pressure is 1 atm. For example, when water is heated to 100°C (212°F) its vapor pressure rises to 1 atm and the liquid boils.

The boiling point at 1 atm indicates whether a liquid will boil and become a gas at any particular temperature and sea-level atmospheric pressure.

- **9.4 Freezing Point** The freezing point is the temperature at which a liquid changes to a solid. For example, liquid water changes to solid ice at 0°C (32°F). Some liquids solidify very slowly even when cooled below their freezing point. When liquids are not pure (for example, salt water) their freezing points are lowered slightly.
- **9.5 Critical Temperature** The maximum temperature at which a liquid can exist, no matter what the pressure on it, is called the critical temperature. For example, the critical temperature of water is 372°C (705°F). The value can be used to estimate many properties whose values are not immediately available.
- **9.6 Critical Pressure** The vapor pressure of a chemical at the critical temperature (see 9.5) is called the critical pressure. For example, the critical pressure of water is 218 atm. Values are given in pounds per square inch absolute, atmospheres, and meganewtons per square meter. The value can be used for estimating many property values that are not immediately available.
- **9.7 Specific Gravity** The specific gravity of a chemical is the ratio of the weight of the solid or liquid to the weight of an equal volume of water at 4°C (or at some other specified temperature).

If the specific gravity is less than 1.0 (or less than 1.03 in seawater) the chemical will float; if higher, it will sink. Where the change in the value with temperature is important, more data are found in 9.20.

- **9.8 Liquid Surface Tension** This property is a measure of the tensile force at the surface of a liquid that tends to shape liquid fragments into spherical drops. Values are expressed in dynes per centimeter and newtons per meter. Liquids with high surface tensions show less tendency to spread. Water has a surface tension of about 73 dynes/cm; seawater has a slightly higher value.
- **9.9 Liquid-Water Interfacial Tension** The value is a measure of the tensile forces existing at the interface between a liquid and water. Approximately, it is the difference between the individual surface tension of the liquid and that of water. Low values of the interfacial tension indicate that the chemical spreads readily on a water surface. The units are the same as in 9.8.
- **9.10 Vapor (Gas) Specific Gravity** The value is the ratio of the weight of vapor to the weight of an equal volume of dry air at the same conditions of temperature and pressure. Buoyant vapors have a vapor specific gravity less than one. The value may be approximated by the ratio M/29, where M is the molecular weight of the chemical (see 9.2).

In some cases the vapor may be at a temperature different from that of the surrounding air. For example, the vapor from a container of boiling methane at -172°F sinks in warm air, even though the vapor specific gravity of methane at 60°F is about 0.6.

For the effect of temperature on vapor density, see 9.26.

9.11 Ratio of Specific Heats of Vapor (Gas) - This property is the ratio of the specific heat at constant pressure (C_p) to the specific heat at constant volume (C_v) ; its value is always greater than one. In most cases it was calculated by use of the expression:

$$\frac{C_p}{C_v} = \frac{C_p}{(C_p-R)}$$

where R is the Universal Gas Constant.

The ratio varies slightly with temperature; the value given is at 20°C (68°F). The ratio is often of value in estimating temperature changes when gases are compressed or expanded. Higher values of the ratio lead to larger temperature changes for a given pressure change.

9.12 Latent Heat of Vaporization - The value is the heat that must be added to the specified weight of a liquid before it can change to vapor (gas). It varies with temperature; the value given is that at the boiling point at 1 atm (see 9.3). The units used are Btu per pound, calories per gram, and joules per kilogram.

No value is given for chemicals with very high boiling points at 1 atm, because such substances are considered essentially nonvolatile.

- **9.13 Heat of Combustion** The value is the amount of heat liberated when the specified weight is burned in oxygen at 25°C. The products of combustion, including water, are assumed to remain as gases; the value given is usually referred to as the "lower heat value." The negative sign before the value indicates that heat is given off when the chemical burns. Units are the same as in 9.12.
- **9.14 Heat of Decomposition** The value is the amount of heat liberated when the specified weight decomposes to more stable substances. The value is given for very few chemicals, because most are stable and do not decompose under the conditions of temperature and pressure encountered during shipment. The negative sign before the value simply indicates that heat is given off during the decomposition. The value does not include heat given off when the chemical burns. Units are the same as in 9.12.
- **9.15 Heat of Solution** The value represents the heat liberated when the specified weight of chemical is dissolved in a relatively large amount of water at 25°C ("infinite dilution"). A negative sign before the value indicates that heat is given off, causing a rise in temperature. (A few chemicals absorb heat when they dissolve, causing the temperature to fall.) Units are the same as in 9.12.

In those few cases where the chemical reacts with water and the reaction products dissolve, the heat given off during the reaction is included in the heat of solution.

- **9.16 Heat of Polymerization** The value is the heat liberated when the specified weight of the compound (usually called the monomer) polymerizes to form the polymer. In some cases the heat liberated is so great that the temperature rises significantly, and the material may burst its container or catch fire. The negative sign before the value indicates that heat is given off during the polymerization reaction. Units are the same as in 9.12.
- **9.17 Heat of Fusion** The value is the number of Btu needed to change one pound of solid to liquid with no change in temperature.
- **9.18 Limiting Value** A chemical specific concentration in water in mole fraction units below which the contribution to the evolution of toxic or flammable vapor at the water surface can be assumed to be negligible.
- **9.19 Reid Vapor Pressure** The value is the equilibrium pressure exerted by vapor over the liquid at 100°F., expressed as pounds per square inch absolute, as defined in 46 CFR 30.10-59.

Items 9.20 through 12.27 consist of tables. The temperature is given in one column followed by the appropriate data value in the next column.

- **9.20 Saturated Liquid Density** The value is the weight (in pounds) of one cubic foot of liquid that is in equilibrium with its vapor. Liquid densities decrease slightly with an increase in temperature; where literature data or reliable estimation methods were applicable, a table shows this effect.
- **9.21 Liquid Heat Capacity** The value is the heat (in Btu) required to raise the temperature of one pound of the liquid one degree Fahrenheit at constant pressure. For example, it requires almost 1 Btu to raise the temperature of 1 pound of water from 68°F to 69°F. The value is useful in calculating the increase in temperature of a liquid when it is heated, as in a fire. The value increases slightly with an increase in temperature; the table shows this effect.
- **9.22 Liquid Thermal Conductivity** The value is a measure of the ability of a liquid to conduct heat. It represents the number of Btu per hour that pass through an area of liquid one square foot in cross-section when the temperature gradient is 1°F per inch of depth. Higher values indicate that the liquid conducts heat more readily.

Liquid thermal conductivities decrease slightly with an increase in temperature. Where applicable, the table shows this effect.

A basic law of heat conduction states that the energy flow per unit area per unit time is proportional to the gradient in temperature. The constant of proportionality is the liquid thermal conductivity.

9.23 Liquid Viscosity - The value (in centipoise) is a measure of the ability of a liquid to flow through a pipe or hole; higher values indicate that the liquid flows less readily under a fixed pressure head. For example, heavy oils have higher viscosities (i.e., are more viscous) than gasoline.

Liquid viscosities decrease rapidly with an increase in temperature. In some cases a table is given to show the effect. In other cases only a single data point was found in the literature.

A basic law of fluid mechanics states that, for most fluids, the force per unit area needed to shear a fluid is proportional to the velocity gradient. The constant of proportionality is the viscosity.

9.24 Solubility in Water - The value represents the pounds of a chemical that will dissolve in 100 pounds of pure water. Solubility usually increases when the temperature increases; where the change has been measured, a table is given to show the effect. The following terms are used when numerical data are either unavailable or not applicable:

The term "Miscible" means that the chemical mixes with water in all proportions. The term "Reacts" means that the substance reacts chemically with water; thus, its solubility has no real meaning. "Insoluble" usually means that very little of the chemical dissolves in 100 pounds of water. (Weak solutions of "Insoluble" materials may still be hazardous to humans, fish, and waterfowl, however.)

9.25 Saturated Vapor Pressure - The value is the pressure (in pounds per square inch absolute) of the vapor in equilibrium with the liquid form at the specified temperature. Vapor pressure values can be used to estimate the relative volatility of chemicals at a given temperature, and to calculate the pressure over a liquid that is shipped in a closed container.

The vapor pressure increases as temperature increases; a table is given to show this effect. Note that the vapor pressure scale is logarithmic.

9.26 Saturated Vapor Density - The value is the weight (in pounds) of one cubic foot of vapor that is in equilibrium with the liquid form.

If it is assumed that the vapor behaves as an ideal gas, the relation pM/RT holds, where p is the vapor pressure, M is the molecular weight, R is the gas constant, and T is the temperature (in absolute units).

Since the vapor pressure varies with temperature (see 9.25), the saturated vapor density also varies with temperature, as shown on the table.

9.27 Ideal Gas Heat Capacity - The value is the number of Btu needed to raise the temperature of one pound of gas by 1° Fahrenheit. The property can be used only when the pressure of the gas is less than about 10 atm. The ideal gas heat capacity is not a function of pressure (below about 10 atm), but it does increase with temperature, and a table is given to show the effect.

4. OTHER INFORMATION SYSTEMS

4.1 CHEMICAL TRANSPORTATION EMERGENCY CENTER (CHEMTREC)

The Manufacturing Chemists Association operates CHEMTREC 24 hours a day. By calling the appropriate toll-free number listed below, one can consult experts on chemicals and spill response.

4.2 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

The NFPA's "Recommended System for the Identification of the Fire Hazards of Materials" (NFPA No. 704M) provides basic warning information to fire fighter in industrial plants and storage facilities. This system uses a diamond-shaped warning symbol. The top, left, and right boxes refer to flammability, health, and reactivity hazards respectively and contain a number from 0 to 4. The exact meaning of each number is explained in Section 3 (para 12.3) of this manual, and the applicable number for each chemical are listed in Section 11 under "NFPA Hazard Classifications." The bottom box is used for special hazards; the most common of these is a warning against the use of water, indicated by the symbol W.

4.3 INTERNATIONAL MARITIME ORGANIZATION (IMO)

Foreign vessels using U.S. waterways generally utilize, in addition to U.S. requirements, an international labeling system developed by IMO. This system consists of 15 diamond-shaped labels. Each identifies a particular hazard by a descriptive picture, a word, and a distinctive color.

The number at the bottom of each diamond identifies the class to which IMO has assigned the chemical and is the same as the first digit in the IMO/UN numerical designation, one of the items given under "Chemical Designations" in Section 11 of this manual.

4.4 DEPARTMENT OF TRANSPORTATION (DOT)

The "1996 North American Emergency Response Guidebook" was developed by DOT as a guide for initial actions to be taken when handling incidents involving hazardous materials. The guidebook identifies the most significant potential hazards and gives information and guidance for initial actions to be taken based upon the material involved. Information can be located in the guidebook based upon chemical name or DOT Identification Number.

4.5 OHM-TADS (EPA)

The Oil and Hazardous Materials Technical Assistance Data System (OHM-TADS) has been developed by the Environmental Protection Agency (EPA) to provide information on physical and chemical properties, hazards, pollution characteristics, and shipping information for over 1200 hazardous materials. OHM-TADS consists of a computerized data base which can be accessed from terminals at the 10 EPA Regional Offices, from EPA Headquarters in Washington, D.C., and from Coast Guard Marine Safety Offices. The System can provide either information on specifically requested properties for a material, or it can print all the information in its files for that material.

Some of the same information appears in both this manual and OHM-TADS, but each contains some information not found in the other.

4.6 POISON CONTROL CENTERS

Throughout the country, local Poison Control Centers are maintained at hospitals. These Centers can provide information on the chemical composition, appearance, and toxicity of common poisonous materials as well as information on the symptoms of exposure and on the emergency procedures recommended in the event of exposure. The information available at these centers deals mainly with common household materials.

Poison Control Centers are coordinated through the Department of Health and Human Services in Washington, D.C., but information should be requested through the local centers.

The telephone number of the local Poison Control Center can be found in a local telephone directory.

4.7 ASSOCIATION OF AMERICAN RAILROADS (AAR)

The AAR has developed emergency action guides for 134 various commodities. The guides are contained in a single binder and provide technical information as well as response guidance.

5. CONVERSION FACTORS

To Convert	То	Multiply by
Length inches inches feet feet feet feet yards yards miles (U.S. statute) miles (U.S. statute)	millimeters feet inches meters yards miles (U.S. statute) yards miles (U.S. statute) feet yards	25.4 0.0833 12* 0.3048 0.3333 0.0001894 3* 0.0005682 5280* 1760*
miles (U.S. statute) miles (U.S. statute) miles (U.S. statute) meters meters meters nautical miles Area	meters nautical miles feet yards miles (U.S. statute) miles (U.S. statute)	1760 1609 0.868 3.281 1.094 0.0006214 1.152
square inches square inches square feet square feet square meters square miles square yards	square centimeters square feet square inches square meters square feet square yards square feet	6.452 0.006944 144* 0.09290 10.76 3,097,600* 9*
volume cubic inches cubic feet cubic feet cubic feet cubic feet cubic feet cubic meters liters quarts (U.S. liquid) U.S. gallons U.S. gallons U.S. gallons barrels (petroleum) Imperial gallons milliliters	cubic centimeters cubic feet cubic inches cubic meters U.S. gallons cubic feet quarts (U.S. liquid) liters barrels (petroleum) cubic feet Imperial gallons U.S. gallons U.S. gallons cubic centimeters	16.39 0.0005787 1728* 0.02832 7.481 35.31 1.057 0.9463 0.02381 0.1337 0.8327 42* 1.201 1*

^{*} Exact value

Time		
seconds	minutes	0.01667
seconds	hours	0.0002778
seconds	days	0.0002776
minutes	seconds	60*
minutes	hours	0.01667
minutes	days	0.0006944
hours	seconds	3600*
hours	minutes	60*
hours	days	0.04167
Tiours	days	0.04107
Mass or Weight		
pounds	kilograms	0.4536
pounds	short tons	0.0005*
pounds	long tons	0.0004464
pounds	metric tons	0.0004536
tons (short)	pounds	2000*
tons (metric)	pounds	2205
tons (long)	pounds	2240*
kilograms	pounds	2.205
tonnes (metric tons)	kilograms	1000*
France		
Energy	Du	0.000000
calories	Btu	0.003968
calories	joules	4.187
Btu (British Thermal Units)	calories	252.0
Btu	joules	1055
joules	calories	0.2388
joules	Btu	0.0009479
Velocity		
feet per second	meters per second	0.3048
feet per second	miles per hour	0.6818
feet per second	knots	0.5921
meters per second	feet per second	3.281
meters per second	miles per hour	2.237
miles per hour	meters per second	0.4470
miles per hour	feet per second	1.467
knots	meters per second	0.5148
knots	miles per hour	1.151
knots	feet per second	1.689
Density		0.04.000
pounds per cubic foot	grams per cubic centimeter	0.01602
grams per cubic centimeter	pounds per cubic foot	62.42

grams per cubic centimeter kilograms per cubic meter

kilograms per cubic meter grams per cubic centimeter

1000* 0.001*

^{*} Exact value

Proceuro		
Pressure pounds per square inch absolute (psia) psia psia psia pounds per square inch gauge (psig) millimeters of mercury (torr) millimeters of mercury (torr) inches of water kilograms per square centimeter inches of water kilograms per square centimeter atmospheres kilograms per square centimeter atmospheres bars kilonewtons per square meter bars kilonewtons per square meter bars	kilonewtons per square meter (kN/m²) atmospheres inches of water millimeters of mercury (torr) psia psia kN/m² psia millimeters of mercury (torr) kN/m² atmospheres kN/m² psia psia kN/m² psia thouspheres kN/m² psia psia kN/m² psia psia kN/m² psia stmospheres atmospheres kilograms per square centimeter	6.895 0.0680 27.67 51.72 add 14.70 0.01934 0.1333 0.03614 735.6 0.2491 0.9678 101.3 14.22 14.70 100* 0.1450 0.9869 0.009869 1.020
Viscosity centipoises pounds per foot per second centipoises centipoises poises grams per centimeter per second newton seconds per square meter	pounds per foot per second centipoises poises newton seconds per square meter grams per centimeter per second poises centipoises	0.0006720 1488 0.01* 0.001* 1* 1* 1000*
Thermal Conductivity Btu per hour per foot per °F Btu per hour per foot per °F watts per meter-kelvin kilocalories per hour per meter per °C kilocalories per hour per meter per °C Heat Capacity	watts per meter-kelvin kilocalories per hour per meter per °C Btu per hour per foot per °F watts per meter-kelvin Btu per hour per foot per °F	1.731 1.488 0.5778 1.163 0.6720
Btu per pound per °F Btu per pound per °F joules per kilogram-kelvin calories per gram per °C	calories per gram per °C joules per kilogram-kelvin Btu per pound per °F Btu per pound per °F	4187 0.0002388 1*
Concentration (in water solution) parts per million (ppm) milligrams per liter milligrams per cubic meter grams per cubic centimeter grams per cubic centimeter pounds per cubic foot	milligrams per liter ppm grams per cubic centimeter milligrams per cubic meter pounds per cubic foot grams per cubic centimeter	1* 1* 1 X 10 ⁻⁹ 1 X 10 ⁹ 62.42 0.01602

^{*} Exact value

Temperature

degrees Kelvin (°K)degrees Rankine (°R)1.8*degrees Rankine (°R)degrees Kelvin (°K)0.5556degrees centigrade (°C)degrees Fahrenheit (°F)first multiply bydegrees Fahrenheit (°F)degrees centigrade (°C)first subtract 32,
then multiply by
0.5556

degrees centigrade (°C) degrees Kelvin (°K) add 273.2 degrees Fahrenheit (°F) degrees Rankine (°R) add 459.7

Flow

cubic feet per secondU.S. gallons per minute448.9U.S. gallons per minutecubic feet per second0.002228

Universal Gas Constant (R)

8.314 joules per gram mole-Kelvin
1.987 calories per gram mole-Kelvin
1.987 Btu per pound mole per °F
10.73 psia-cubic feet per pound mole per °F
82.057 atm-cubic centimeters per gram mole-Kelvin
62.361 millimeters mercury liter per gram mole-Kelvin

^{*} Exact value

6. SELECTED PROPERTIES OF FRESH WATER, SEA WATER, ICE AND AIR

The following properties are useful for engineering calculations described in the Hazard Assessment Handbook. The values for fresh water are those recorded for pure water. The values for the water of lakes and streams differ somewhat from those of pure water, but since no "standard" fresh water has ever been defined, the values for pure water must be used.

A "standard" sea water has been defined as one containing 35 grams of salts per kilogram of solution. The values for the water of tidal estuaries differ somewhat from those of "standard" sea water because the water has a salinity somewhere between those of fresh and sea waters.

The value for the density of air was derived from the ideal gas law; the air is assumed to be dry and at 1 atmosphere pressure.

6.1 FREEZING POINT

Fresh Water	0°C	32°F
Sea Water	-1.91°C	28.6°F

6.2 LATENT HEAT OF FUSION OF ICE

79.6 cal/g = 143.3 Btu/lb

6.3 DENSITY (See Table 6.1)

6.4 VISCOSITY (See Table 6.1)

6.5 HEAT CAPACITY (See Table 6.1)

6.6 THERMAL CONDUCTIVITY (See Table 6.1)

6.7 VAPOR PRESSURE (See Table 6.1)

TABLE 6.1

DENSITY OF FRESH WATER		DENSITY OF	SEA WATER	DENSITY	OF ICE	DENSITY OF D	RY AIR (1 atm.)
Temperature	Pounds per	Temperature	Pounds per	Temperature	Pounds per	Temperature	Pounds per
(degrees F)	cubic foot	(degrees F)	cubic foot	(degrees F)	cubic foot	(degrees F)	cubic foot
32	62.410	30	64.250	-50	57.670	-10	0.088
40	62.418	40	64.200	-40	57.625	0	0.086
50	62.401	50	64.170	-30	57.600	10	0.085
60	62.358	60	64.100	-20	57.582	20	0.083
70	62.293	70	64.020	-10	57.541	30	0.081
80	62.208	80	63.950	0	57.105	40	0.079
90	62.105	90	63.800	10	57.490	50	0.078
100	61.986	100	63.700	20	57.455	60	0.076
110	61.852			30	57.410	70	0.075
120	61.704					80	0.074
						90	0.072
						100	0.071
						110	0.070
						120	0.068

VISCOSITY OF FRESH WATER		VISCOSITY OF SEA WATER		HEAT CAPACITY OF FRESH WATER		HEAT CAPACITY OF SEA WATER	
Temperature		Temperature		Temperature	British thermal	Temperature	British thermal
(degrees F)	Centipoise	(degrees F)	Centipoise	(degrees F)	unit per pound-F	(degrees F)	unit per pound-F
32 40 50 60 70 80 90 100 110 120	1.770 1.540 1.304 1.122 0.974 0.858 0.763 0.682 0.616 0.558	30 40 50 60 70 80 90 100	1.880 1.610 1.400 1.210 1.060 0.920 0.815 0.730	32 40 50 60 70 80 90 100 110 120	1.007 1.004 1.001 1.000 0.999 0.998 0.998 0.998 0.998 0.998	30 40 50 60 70 80 90 100	0.936 0.935 0.934 0.932 0.931 0.930 0.928 0.927

TABLE 6.1 (Continued)

HEAT CAPACITY OF ICE			ONDUCTIVITY OF H WATER	THERMAL CONDUCTIVITY OF SEA WATER		THERMAL CONDUCTIVITY OF ICE	
Temperature	British thermal units per pound-F 0.400 0.413 0.426 0.438 0.451 0.464 0.476 0.489 0.502	FRES Temperature (degrees F) 32 40 50 60 70 80 90 100 110 120	H WATER British thermal unitinch per hour square foot-F 3.932 3.979 4.037 4.096 4.154 4.212 4.271 4.329 4.387 4.446	SEA Temperature (degrees F) 30 40 50 60 70 80 90 100	### AMTER British thermal unitinch per hour square foot-F	Temperature (degrees F) -50 -40 -30 -20 -10 0 10 20 30	British thermal unit-inch per hour square foot-F 18.754 18.347 17.939 17.531 17.123 16.715 16.308 15.900 15.492

	PRESSURE OF FRESH TER		PRESSURE OF SEA VATER	SATURATED VAPOR PRESSURE OF		
Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per square inch	
32 40 50 60 70 80 90 100	0.089 0.122 0.178 0.256 0.363 0.507 0.698 0.950	30 40 50 60 70 80 90 100	0.079 0.115 0.167 0.242 0.351 0.509 0.700 0.950	-50 -40 -30 -20 -10 0 10 20 30	0.001 0.002 0.003 0.006 0.011 0.019 0.031 0.051 0.081	

7. GUIDE TO COMPATIBILITY OF CHEMICALS

The Guide is based in part upon information provided to the Coast Guard by the National Academy of Sciences - U.S. Coast Guard Advisory Committee on Hazardous Materials and represents the latest information available to the Coast Guard on chemical compatibility.

The accidental mixing of one chemical cargo with another can in some cases be expected to result in a vigorous and hazardous chemical reaction. The generation of toxic gases, the heating, overflow, and rupture of cargo tanks, and fire and explosion are possible consequences of such reactions.

The purpose of the Compatibility Chart is to show chemical combinations believed to be dangerously reactive in the case of accidental mixing. It should be recognized, however, that the Chart provides a broad grouping of chemicals with an extensive variety of possible binary combinations. Although one group, generally speaking, can be considered dangerously reactive with another group where an "X" appears on the Chart, there may exist between the groups some combinations which would not dangerously react. The Chart should therefore not be used as an infallible guide. It is offered as an aid in the safe loading of bulk chemical cargoes, with the recommendation that proper safeguards be taken to avoid accidental mixing of binary mixtures for which an "X" appears on the Chart. Proper safeguards would include consideration of such factors as avoidance of the use of common cargo and vent lines and carriage in adjacent tanks having a common bulkhead.

The following procedure explains how the Guide should be used in determining compatibility information:

- (1) Determine the reactivity group of a particular product by referring to the alphabetical list in Table 7.1.
- (1) Enter the Chart with the reactivity group. Proceed across the page. An "X" indicates a reactivity group that forms an unsafe combination with the product in question.

For example, crotonaldehyde is listed in Table 7.1 as belonging in Group 19 (Aldehydes) and also has a notation, (2), which is explained in the footnotes to Table 7.1. The Compatibility Chart shows that chemicals in group 19 should be segregated from sulfuric and nitric acids, caustics, ammonia, and all types of amines (aliphatic, alkanol, and aromatic). Footnote (2), refers the user to Table 7.3 where exceptions to the Compatibility Chart are listed. Here, crotonaldehyde is listed as also being incompatible with Group 1, non-oxidizing acids.

It is recognized that there are wide variations in the reaction rates of individual chemicals within the broad groupings shown reactive by the Compatibility Chart. Some individual materials in one group will react violently with some of the materials in another group and cause great hazard; others will react slowly, or not at all. Accordingly, a useful addition to the Guide would be the identification of specific materials which might not follow the characteristic reactivities of the rest of the materials in its Group. A few such combinations are listed in Table 7.3; as other exceptions to the Chart become known, they will be listed in subsequent revisions of this manual.

FIGURE 1 – COMPATIBILITY CHART

[X indicates incompatible groups]

CARGO COMPATIBILITY	1. NON-OXIDIZING MINERAL ACIDS	SULFURIC ACID	NITRIC ACID	ORGANIC ACIDS	CAUSTICS	AMMONIA	ALIPHATIC AMINES	ALKANOLAMINES	9. AROMATIC AMINES	10. AMIDES	11. ORGANIC ANHYDRIDES	12. ISOCYANATES	13. VINYL ACETATE	14. ACRYLATES	15. SUBSTITUTED ALLYLS	16. ALKYLENE OXIDES	17. EPICHLOROHYDRINS	18. KETONES	9. ALDEHYDES	20. ALCOHOLS, GLYCOLS	21. PHENOLS, CRESOLS	22. CAPROLACTAM SOLUTION		
CARGO GROUPS	: -≥	2.	ω.	4.	5.	9	7.	œ.	6	7	-≺	7	~	,	7	7	-	7	19.	7	2	20		i
1. NON-OXIDIZING MINERAL ACIDS		Х			Х	Х	Χ	Χ	Х	Х	Χ	Х	Х			Χ	Х							1
2. SULFURIC ACID	Х		Х	Х	X	X	X	Х	Х	X	X	Х	X	Χ	Χ	Х	X	Х	Х	Χ	Х	Χ		2
3. NITRIC ACID		Х			X	X	X	X	X	X	X	X	X	Х	X	X	X	X	X	X	X			3
4. ORGANIC ACIDS		Χ			Χ	Χ	Χ	Χ				Χ				Χ	Χ							4
5. CAUSTICS	Х	Х	Χ	Χ							Χ	Χ				Χ	Χ		Χ	Χ	Х	Χ		5
6. AMMONIA	X	X	X	Х						Х	X	Х	Х			Х	X		Х	,,				6
7. ALIPHATIC AMINES	X	X	Х	Х							Х	X	X	Χ	Χ	X	Х	Χ	Х	Χ	Χ	Χ		7
8. ALKANOLAMINES	X	X	X	X							X	X	X	Х	X	Х	X		X					8
9. AROMATIC AMINES	X	X	X	,							X	Х	,	,	, ,	,	,		Х					9
10. AMIDES	X	Х	X			Х						X							,,		Χ			10
11. ORGANIC ANHYDRIDES	X	X	X		Х	X	Х	Х	Χ															11
12. ISOCYANATES	X	Х	X	Χ	X	Х	X	X	X	Х										Χ		Χ		12
13. VINYL ACETATE	X	X	X		- / \	X	X	X																13
14. ACRYLATES		X	X				X	Х																14
15. SUBSTITUTED ALLYLS		Х	Χ				Х	Х																15
16. ALKYLENE OXIDES	Х	Х	Х	Χ	Χ	Х	X	Х																16
17. EPICHLOROHYDRIN	X	X	Х	Х	X	X	X	Х																17
18. KETONES		Х	Χ				Χ																	18
19. ALDEHYDES		X	Х		Χ	Х	X	Χ	Х															19
20. ALCOHOLS, GLYCOLS		X	Х		X		X					Χ												20
21. PHENOLS, CRESOLS		X	Х		X		X			Χ														21
22. CAPROLACTAM SOLUTION		X			X		X					Χ												22
30. OLEFINS		Х	Х																					30
31. PARAFFINS																								31
32. AROMATIC HYDROCARBONS			Х																					32
33. MISCELLANEOUS HYDROCARBON MIXTURES			Х																					33
34. ESTERS		Χ	Χ																					34
35. VINYL HALIDES			Х																			Х		35
36. HALOGENATED HYDROCARBONS																								36
37. NITRILES		Χ																						37
38. CARBON DISULFIDE							Χ	Χ																38
39. SULFOLANE																								39
40. GLYCOL ETHERS		Χ										Χ												40
41. ETHERS		Χ	Χ																					41
42. NITROCOMPOUNDS					Χ	Χ	Χ	Χ	Χ															42
43. MISCELLANEOUS WATER SOLUTIONS		Χ										Χ]	43
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		

TABLE 7.1 ALPHABETICAL LISTING OF COMPOUNDS

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Acetaldehyde	19	AAD	
Acetic acid	² 4	AAC	
Acetic anhydride	11		
Acetone	² 18	ACT	
Acetone cyanohydrin	^{1,2} 0	ACY	
Acetonitrile	37	ATN	
Acetophenone	_18	ACP	
Acrolein	² 19	ARL	
Acrylamide solution	10	AAM	
Acrylic acid	² 4	ACR	
Acrylonitrile	² 15	CAN	
Acrylonitrile-Styrene copolymer dispersion in Polyether polyol	20	ALE	
Adiponitrile	37	AND	
Alachlor technical	33	ALH	
*Alcohols (C13+)	20	ALY	TDN/TTN/PDC/TFA
Alcoholic beverages	20		
*Alcohol polyethoxylates	20		APU/APV/APW (APK/APL)
Alcohol polyethoxylates, secondary	20		AEA/AEB
Alkanes (C6-C9)	31	ALK	HXS/HMX/OAX/NAX
n-Alkanes (C10+)	31		DCC/DOC/TRD/ALJ
iso- & cyclo-Alkanes (C10-C11)	31	AKI	
iso & cyclo-Alkanes (C12+)	31	A 1 . C A	
Alkane (C14-C17) sulfonic acid, sodium salt solution	34	AKA	
Alkanyl polyether (C9-C20)	41	AKP	
Alkenyl (C11+) amide	11	AKM	
Alkenylsuccinic anhydride	11	AAH	
Alkyl acrylate-Vinyl pyridine copolymer in Toluene	32	AAP	
Alkyl (C8+) amine, Alkenyl (C12+) acid ester mixture	34 32	AAA	DDV/DDE
Alkyl (C5-C4) benzenes	32	AKC	PBY/BBE
Alkyl (C5-C8) benzenes *Alkyl (C9+) benzenes	32	AKD AKB	DBZ/UDB/DDB/TRB
			/TDB
*Alkylbenzene, Alkylindane, Alkylindene mixture (each C12-C17)	32	AIH	
Alkylbenzenesulfonic acid		ABS	
Alkylbenzenesulfonic acid, sodium salt solutions	33	ABT	
Alkyldithiadiazole (C6-C24)	33	ADT	
Alkyl ester copolymer (C6-C18)	34	AES	0.15
Alkyl (C7-C9) nitrates	² 34	AKN	ONE
Alkyl phenol sulfide (C8-C40)		AKS	
Alkyl phthalates	34	A 1 A	
Allyl alcohol	² 15	ALA	
Allyl chloride	15	ALC	
Aluminum chloride, Hydrochloric acid solution	0 ² 43	AHS	A I N 1
Aluminum sulfate solution	² 43	ASX	ALM
2-(2-Aminoethoxy)ethanol	8	AEX	

TABLE 7.1 ALPHABETICAL LISTING OF COMPOUNDS

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Aminoethyldiethanolamine, Aminoethylethanolamine solution	8		
Aminoethylethanolamine	8	AEE	
N-Aminoethylpiperazine	7		
2-Amino-2-hydroxymethyl-1,3-propanediol solution	43	AHL	
2-Amino-2-methyl-1-propanol	8	APR	
Ammonia, anhydrous	6	AMA	
Ammonia, aqueous, see Ammonium hydroxide	6		AMH
Ammonium bisulfite solution	² 43	ABX	ASU
*Ammonium hydrogen phosphate solution	0	AMI	
Ammonium hydroxide (28% or less ammonia)	6	AMH	
Ammonium nitrate solution	¹ 0	ANR	AMN
Ammonium nitrate, Urea solution (containing Ammonia)	6	UAS	
*Ammonium nitrate, Urea solution (not containing Ammonia)	43	ANU	UAT
*Ammonium polyphosphate solution	43	AMO	APP
Ammonium sulfate solution	43		AMS
Ammonium sulfide solution	5	ASS	ASF
Ammonium thiocyanate, Ammonium thiosulfate solution	0	ACS	A.T.C.
Ammonium thiosulfate solution	43	ATV	ATF
Amyl acetate Amyl alcohol	34 20	AEC AAI	IAT/AML/AAS/AYA IAA/AAN/ASE/APM
*Amylene, see Pentene	30	AMZ	PTX
*Amyl methyl keton, see Methyl amyl ketone	18	AMK	MAK
Aniline	9	ANL	WAR
Animal and Fish oils, n.o.s.	34	AFN	
Animal and Fish acid oils and distillates, n.o.s.	34	AFA	
Anthracene oil (Coal tar fraction), see Coal tar	33	AHO	COR
Apple juice	43	7.1.10	
Aryl polyolefin (C11-C50)	30	AYF	
Asphalt	33	ASP	ACU
Asphalt blending stocks, roofers flux	33	ARF	
Asphalt blending stocks, straight run residue	33	ASR	
Aviation alkylates	33	AVA	GAV
Barium long chain alkaryl sulfonate (C11-C50)	34	BCA	
Barium long chain alkyl (C8-C14) phenate sulfide	34	BCH	
Behenyl alcohol	20		
Benzene	32	BNZ	
Benzene hydrocarbon mixtures (having 10% Benzene or more)	32	BHB	
Benzenesulfonyl chloride	^{1,2} 0	BSC	
Benzene, Toluene, Xylene mixtures	32	BTX	
Benzene tricarboxylic acid, trioctyl ester	34	5-7-	
Benzylacetate	34	BZE	
Benzyl alcohol	21	BAL	
Benzyl chloride	36	BCL	
Brake fluid base mixtures	20	BFX	
Butadiene Rutadiene Rutulone mixtures (cont. Acetulones)	30	BDI	
Butadiene, Butylene mixtures (cont. Acetylenes) Butane	30 31	BBM BMX	IBT/BUT

TABLE 7.1 ALPHABETICAL LISTING OF COMPOUNDS

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Butene, see Butylene Butene oligomer	30 30	BOL	IBL/BTN
Butyl acetate	34	BAX	IBA/BCN/BTA/BYA
Butyl acrylate	14	BAR	BAI/BTC
Butyl alcohol	² 20		IAL/BAN/BAS/BAT
Butylamine	7	BTY	IAM/BAM/BTL/BUA
Butylbenzene	32	BBE	
Butyl benzyl phthalate	34	BPH	
Butyl butyrate	34	BBA	BUB/BIB
Butylene	30	BTN	IBL
Butylene glycol	² 20	BUG	
Butylene oxide	16	BTO	
Butyl ether	41	BTE	
Butyl formate	34		BFI/BFN
Butyl heptyl ketone	18	BHK	
Butyl methacrylate	14	BMH	BMI/BMN
Butyl methacrylate, Decyl methacrylate, Cetyl-Eicosyl methacrylate mixture	14	DER	
Butyl phenol, Formaldehyde resin in Xylene	32		
n-Butyl propionate	34	BPN	
Butyl stearate	34	5	
Butyl toluene	32	BUE	D A D /DTD /DE A
Butyraldehyde	19	BAE	BAD/BTR/BFA
Butyric acid	4 1,2	BRA	IBR
gamma-Butyrolactone	_	BLA	
Calcium alkyl (C9) phenol sulfide, polyolefin phosphorosulfide mixture	34	CPX	
Calcium bromide solution, see Drilling brines	43		DRB
Calcium bromide, Zinc bromide solution, see Drilling brine	43		DZB
(containing zinc salts)			
Calcium carbonate slurry	34		
Calcium chloride solution	43	CCS	CLC
Calcium hydroxide slurry	5	COH	
Calcium hypochlorite solutions	5		CHZ/CHU/CHY
Calcium long chain alkaryl sulfonate (C11-C50)	34	CAY	
Calcium long chain alkyl phenate (C8-C40)	34	CAN	
Calcium long chain alkyl phenate sulfide (C8-C40)	34		
Calcium long chain alkyl salicylate (C13+)		CAK	
Calcium long chain alkyl phenolic amine (C8-C40)	7		
Calcium nitrate, Magnesium nitrate, Potassium chloride solution	34		
Calcium sulfonate, Calcium carbonate, Hydrocarbon	33		
solvent mixture	10	CDO	
Camphor oil Caprolactam solution	18 22	CPO CLS	
Carbolic oil	21	CBO	
Carbon disulfide	38	CBB	
Carbon tetrachloride	36	CBD	
Cashew nut shell oil (untreated)	4	OCN	
Caustic potash solution	² 5	CPS	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Caustic soda solution	² 5	CSS	
Cetyl-Eicosyl methacrylate mixture	14	CEM	
Cetyl-Stearyl alcohol	20		
Chlorinated paraffins (C10-C13)	36	CLH	
Chlorinated paraffins (C14 - C17)	36		
Chlorine	¹ 0	CLX	
Chloroacetic acid solution	4	CHM	CHL/MCA
Chlorobenzene	36	CRB	
Chlorodifluoromethane	36	MCF	
Chloroform	36	CRF	
Chlorohydrins	17	CHD	
4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution	9	CDM	
*Chloronitrobenzene	42	CNO	
Chloropropionic acid	4	CPM	CLA/CLP
Chlorosulfonic acid	¹ 0	CSA	
Chlorotoluene	36	CHI	CTM/CTO/CRN
Choline chloride solutions	20	CCO	
Citric acid	4	CIS	CIT
Clay slurry, see also Kaolin clay slurry	43		
Coal tar	33	COR	OCT
Coal tar pitch	33	CTP	
Cobalt naphthenate in solvent naphtha	34	CNS	
Coconut oil, fatty acid	34	CFA	
Corn syrup	43	CSY	
Cottonseed oil, fatty acid	234	CFY	
Creosote	² 21	CCT	CCW/CWD
Cresols	21	CRS	CRL/CSL/CSO
Cresylate spent caustic solution	05	CSC	
Cresylic acid	21	CRY	
Cresylic acid, dephenolized	21	CAD	000
Cresylic acid, sodium salt solution, see Cresylate spent caustic	05		CSC
Cresylic acid tar	_21	CRX	
Crotonaldehyde	² 19	CTA	
Cumene (isopropyl benzene), see Propylbenzene	32	CUM	PBY
1,5,9-Cyclododecatriene	30		
Cycloheptane	31	CYE	
Cyclohexane	31	CHX	
Cyclohexanol	20	CHN	
Cyclohexanone	18	CCH	
Cyclohexanone, cyclohexanol mixture	² 18	CYX	
Cyclohexyl acetate	34	CYC	
Cyclohexylamine	07	CHA	
*1,3-Cyclopentadiene dimer	30	CPD	DPT
Cyclopentane	31	CYP	
Cyclopentene	30	CPE	
Cymene	32	CMP	
Decahydronaphthalene Decahydronaphthalene	33	DHN	IDA/DAI
Decaldehyde	19		IDA/DAL

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
*Decane, see n-Alkanes (C10+)	31	DCC	ALJ
Decanoic acid	04	DCO	
Decene	30	DCE	
Decyl acetate	34	DYA	141/040
Decyl acrylate	14 200	DAT	IAI/DAR
Decyl alcohol	² 20	DAX	ISA/DAN
Decylbenzene Decyloxytetrahydro-thiophene dioxide	32 ² 0	DBZ DHT	AKB
Decyloxyteriarrydro-triloprierie dioxide Dextrose solution	43	DTS	
Diacetone alcohol	² 20	DAA	
Dialkyl(C10 - C14) benzenes	32	DAB	
Dialkyl(C7 - C13) phthalates	34	DAH	DHP/DIE/DOP/DIF /DTP/DUP/DID/DIN /DIO/EHE
Dibutyl amine	7	DBA	
Dibutyl hydrogen phosphonate	34	DHD	
Dibutyl phthalate	34	DPA	
Dichlorobenzene	36	DBX	DBM/DBO/DBP
Dichlorodifluoromethane	36	DCF	
1,1-Dichloroethane	36	DCH	
2,2'-Dichloroethyl ether	41	DEE	
1,6-Dichlorohexane	36 36	DHX DCI	
2,2'-Dichloroisopropyl ether Dichloromethane	36	DCI	
2,4-Dichlorophenol	21	DCM	
2,4-Dichlorophenoxyacetic acid, Diethanolamine salt	43	DDE	
solution			
2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution	1,20	DAD	DDA/DSX
 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution 	² 43	DTI	
Dichloropropane	36	DPX	DPB/DPP/DPC/DPL
1,3-Dichloropropene	15	DPS	DPU/DPF
Dichloropropene, dichloropropane mixture	15	DMX	
2,2-Dichloroproprionic acid	4	DCN	
*Dicyclopentadiene, see 1,3-Cyclopentadiene dimer	30	DPT	CPD
Diethanolamine	08	DEA	
Diethanolamine salt of 2,4-Dichlorophenoxyacetic acid solution	43	DDE	
Diethylamine	07	DEN	
Diethylaminoethanol, see Diethylethanolamine	80		DAE
2,6-Diethylaniline	09	DMN	
Diethylbenzene	32	DEB	
Diethylene glycol	² 40	DEG	DAO
Diethylene glycol butyl ether, see Poly(2-8) alkalene glycol monoalkyl (C1-C6) ether	40	DME	PAG
Diethylene glycol butyl ether acetate, see Poly(2-8) alkylene glycol monoalkyl(C1-C6)	34	DEM	PAF
Diethylene glycol dibutyl ether	40	DIG	
Diethylene glycol diethyl ether	40		

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Diethylene glycol ethyl ether, see Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether	40	DGE	PAG
*Diethylene glycol ethyl ether acetate, see Poly (2-8) alkylene glycol monoalky (C1-C6) ether acetates	34	DGA	PAF
Diethylene glycol n-hexyl ether, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether	40	DHE	PAG
*Diethylene glycol methyl ether, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether	40	DGM	PAG
Diethylene glycol methyl ether acetate, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether acetate	34	DGR	PAF
Diethylene glycol phenyl ether	40	DGP	
Diethylene glycol phthalate	34	DGL	
Diethylene glycol propyl ether, see Poly (2-8) alkylene glycol monoalkyl (c1-C6) ether	40	DGO	PAG
Diethylenetriamine	² 7	DET	
Diethylenetriamine pentaacetic acid, pentasodium salt solution	43		
Diethylethanolamine	8	DAE	
Diethyl ether, see Ethyl ether	41		EET
Di-(2-ethylhexyl)adipate	34	DEH	
Di-(2-ethylhexyl)phosphoric acid	1	DEP	
*Di-(2-ethylhexyl)phthalate, see Dialkyl (c7-C13) phthalates	34	DIE	DIO/DOP/DAH
Diethyl phthalate	34	DPH	
Diethyl sulfate	34	DSU	
Diglycidyl ether of Bisphenol A	41	BDE	BPA
Diglycidyl ether of Bisphenol F	41	DGF	
Diheptyl phthalate	34	DHP	
Di-n-hexyl adipate	34	DHA	
Dihexyl phthalate	34	D 1 \	
1,4Dihydro-9,10-dihydroxy anthracene, disodium salt solution	5	DDH	
Diisobutylamine	7	DBU	
*Diisobutylcarbinol, see Nonyl alcohol	20	DBC	NNS
Diisobutylene	30	DBL	MINO
Diisobutyl ketone	18	DIK	
		DIT	
Diisobutyl phthalate	34 34	DID	DAH
*Diisodecyl phthalate, see Dialkyl (C7-C13) phthalates			DAH
Diisononyl adipate	34	DNY	DALL
*Diisononyl phthalate, see Dialkyl (C7-C13) phthalates	34	DIN	DAH
Diisooctyl phthalate	34	DIO	
Diisopropanolamine	8	DIP	
Diisopropylamine	7	DIA	
Diisopropylbenzene	32	DIX	
Diisopropyl naphthalene	32	DII	
N,N-Dimethyl acetamide	10	DAC	
N,N-Dimethylacetamide solution	10	DLS	
Dimethyl adipate	34	DLA	
Dimethylamine	7	DMA	D140 (D14) ('T110
Dimethylamine solution	7		DMG/DMY/DMC

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Dimethylamine salt of 4-Chloro-2-methylphenoxyacetic acid solution	9	CDM	
Dimethylamine salt of 2,4-dichlorophenoxyacetic acid solution	1,20	DAD	DDA/DSX
2,6-Dimethylaniline	9	DMM	
Dimethylcyclicsiloxane hydrolyzate	34		
N,N-Dimethylcyclohexylamine	7	DXM	
Dimethylethanolamine	8	DMB	
Dimethylformamide	10	DMF	
Dimethyl furan	41		
Dimethyl glutarate	34	DGT	
Dimethyl hydrogen phosphite	² 34	DPI	
Dimethyl naphthalene sulfonic acid, sodium salt solution	² 34	DNS	
Dimethyloctanoic acid	4	DMO	
Dimethyl phthalate Dimethylpolysiloxane	34	DTL DMP	
2,2-Dimethylpropane-1,3-diol	34 20	DDI	
Dimethyl succinate	34	DSE	
Dinitrotoluene	42	DNM	DTT/DNL/DNU
*Dinonyl phthalate, see Dialkyl (C7-C13) phthalates	34	DIF	DAH
*Dioctyl phthalate, see Dialkyl (C7-C13) phthalates	34	DOP	DAH
1,4-Dioxane	41	DOX	
Dipentene	30	DPN	
Diphenyl	32	DIL	
Diphenylamines, alkylated	7	DAJ	
Diphenylaine, reaction product with 2,2,4-trimethylpentene	7	DAK	
Diphenyl, Diphenyl ether mixture	33	DDO	DTH
Diphenyl ether	41	DPE	
Diphenyl ether, Diphenyl phenyl ether mixture	41	DOB	
Diphenylmethane diisocyanate	12	DPM	
Diphenylol propane-Epichlorohydrin resins	¹ 0 7	DPR DNA	
Di-n-propylamine Dipropylene glycol	40	DPG	
Dipropylene glycol butyl ether, see Poly (2-8) alkylene	40	DBG	PAG
glycol monoalkyl (C1-C6) ether			17.0
Dipropylene glycol dibenzoate		DGY	DAG
Dipropylene glycol methyl ether, see Poly (2-8) alkylene glycol monoalkyl (C1-C6) ether		DPY	PAG
Distillates: flashed feed stocks	33	DFF	
Distillates: straight run	33	DSR	DALL
*Ditridecyl phthalate, see Dialkyl (C7-C13) phthalates	34	DTP	DAH
*Diundecyl phthalate, see Dialkyl (C7-C13) phthalates	34	DUP	DAH
Dodecane Dodecanol	31 20	DOC DDN	PFN LAL
Dodecene	30	DOZ	DDC/DOD
2-Dodecenylsuccinic acid, dipotassium salt solution	34	D02	DSP
*Dodecyl alcohol, see Dodecanol	01		DDN
Dodecylamine, tetradecylamine mixture	² 07	DTA	= = • •
Dodecylbenzene	32		AKB
Dodecylbenzenesulfonic acid	² 0	DSA	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Dodecyl diphenyl oxide disulfonate solution	43		
Dodecyl hydroxypropyl sulfide	² 0		
Dodecylmethacrylate	14	DDM	
	14	DDIVI	
Dodecyl, pentadecyl methacrylate mixtures Dodecyl phenol	21	DOL	
Dodecyl xylene	32	DXY	
Drilling brine (containing Calcium, Potassium or Sodium salts)	43	DAT	DRB
Drilling brine (containing Zinc salts)	43	DZB	
Drilling mud (low toxicity) (if flammable or combustible)	33	טבט	DRM
Drilling mud (low toxicity) (if non-flammable or non-	43		DRM
combustible)	40		DINIVI
Epichlorohydrin	17	EPC	
Epoxy resin	18		
Ethane	31	ETH	
Ethanolamine	8	MEA	
*2-Ethoxyethanol, see Ethylene glycol monoalkyl ethers	40	EEO	EGC/EGE
2-Ethoxyethyl acetate	34	EEA	EGC/EGE
*Ethoxylated alcohols, C11-C15, see the alcohol	20	LLA	APU/APV/APW
	20		
polyethoxylates			(EOD/ENP/EOP/EOT
Ethovu trighyool	40	ETG	/ETD)
Ethoxy triglycol	40		
Ethyl acetate	34		
Ethyl acetoacetate	34		
Ethyl acrylate	14 ² 20		
Ethyl alcohol	20 ² 7		
Ethylamine Ethylamine		EAM	
Ethylamine solution	7	EAN	FLIZ
Ethyl amyl ketone	18	EAK	ELK
Ethyl benzene	32		
Ethyl butanol	20		
N-Ethyl-n-butylamine	7	EBA	
Ethyl butyrate	34	EBR	
Ethyl chloride	36	ECL	
Ethyl cyclohexane	31	ECY	
N-Ethylcyclohexylamine	7	ECC	
Ethylene Ethylene gerhanete	30 34	ETL	
Ethylene carbonate	20	ECH	
Ethylene chlorohydrin Ethylene cyanohydrin	20	ETC	
Ethylenediamine	² 0	EDA	EMX
Ethylenediaminetetracetic acid, tetrasodium salt solution	43	EDS	LIVIA
Ethylene dibromide	36	EDB	
Ethylene dichloride	² 36		
Ethylene glycol	² 20	EGL	
Ethylene glycol acetate	34	EGC	
Ethylene glycol butyl ether, see Ethylene glycol monoalkyl	40	EGM	EGC
ethers		LGIVI	
Ethylene glycol tert-butyl ether, see Ethylene glycol monoalkyl ethers	40		EGC

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Ethylene glycol butyl ether acetate	34	EMA	
Ethylene glycol diacetate	34	EGY	
Ethylene glycol dibutyl ether	40	EGB	
Ethylene glycol ethyl ether, see Ethylene glycol monoalkyl ethers	40	EGE	EGC/EEO
Ethylene glycol ethyl ether acetate, see 2-Ethoxyethyl acetate	34	EGA	EEA
Ethylene glycol hexyl ether	40	EGH	
Ethylene glycol isopropyl ether, see Ethylene glycol monoalkyl ethers	40	EGI	EGC
Ethylene glycol methyl butyl ether	40	EMB	
Ethylene glycol methyl ether, see Ethylene glycol monoalkyl ethers	40	EME	EGC
Ethylene glycol methyl ether acetate	34	EGT	
Ethylene glycol monoalkyl ethers	40	EGC	
Ethylene glycol phenyl ether	40	EPE	
Ethylene glycol phenyl ether, Diethylene glycol phenyl ether mixture	40	EDX	
Ethylene glycol propyl ether, see Ethylene glycol	40	EGP	EGC
monoalkyl ethers	¹ 0	FOV	
Ethylene oxide	16	EOX EPM	
Ethylene oxide, Propylene oxide mixture	30	EPIVI	
Ethylene-Propylene copolymer Ethylene, Vinyl acetate copolymer emulsion	43		
Ethyl ether	43	EET	
Ethyl-3-ethoxypropionate	34	EEP	
*Ethylhexaldehyde, see Octyl aldehydes	19	EHA	OAL
2-Ethylhexanoic acid, see Octanoic acids	4	EHO	OAY
*2-Ethylhexanol, see Octanol	20	EHX	OCX
2-Ethylhexyl acrylate	14	EAI	
2-Ethylhexylamine	7	EHM	
Ethyl hexyl phthalate	34	EHE	
*Ethyl hexyl tallate	34	EHT	
2-Ethyl-1-(hydroxymethyl)propane-1,3-diol, C8-C10 ester	34	EHD	
Ethylidene norbornene	² 30	ENB	
Ethyl methacrylate	14	ETM	
2-Ethyl-6-methyl-N(1'-methyl-2-methoxyethyl)aniline	9	EEM	
o-Ethyl phenol	21	EPL	
Ethyl propionate	34	EPR	
2-Ethyl-3-propylacrolein	² 19	EPA	
Ethyl toluene	32	ETE	
*Fatty acids (saturated, C13+)	34	FAD	SRA
Ferric chloride solution	2.5	FCS	FCL
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution	² 43	FHX	STA
Ferric nitrate, Nitric acid solution	3	FNN	
Fish solubles (water based fish meal extracts)	43	FSO	
Fluorosilicic acid	1	FSJ	
Formaldehyde, Methanol mixtures	² 19	MTM	
Formaldehyde solution	² 19	FMS	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Formamide	10	FAM	
Formic acid	² 4	FMA	
Fructose solution	43		
Fumaric adduct of Rosin, water dispersion	43	FAR	
Furfural	19 2	FFA	
Furfuryl alcohol	² 20	FAL	
Gas oil: cracked	33	GOC	
Gasoline blending stocks: alkylates	33	GAK	
Gasoline blending stocks: reformates	33	GRF	
Gasolines:		O 4 T	
Automotive (not over 4.23 grams lead per gal.)	33	GAT	
Aviation (not over 4.86 grams lead per gal.)	33	GAV	AVA
Casinghead (natural)	33	GCS	
Polymer	33	GPL	
Straight run	33	GSR	
Glucose solution	43	OT 4	
Glutaraldehyde solution	19	GTA	
Glycerine	² 20	GCR	
Glycerine, Dioxanedimethanol mixture	20	GDM	
Glycerol monooleate	20	GMO	
Glycerol polyalkoxylate	34		
Glyceryl triacetate	34		CLT
Glycidyl ester of C10 tridecylacetic acid, see Glycidyl ester	34		GLT
of tridecyl acetic acid	24	CLT	
Glycidyl ester of tridecylacetic acid	34	GLT	
Glycidyl ester of Versatic acid, see Glycidyl ester of	34		
tridecylacetic acid	7		
Glycine, sodium salt solution	7 34		
Glycol diacetate		GOS	
Glyoxal solutions Glyoxylic acid	19 4	GAC	
Heptane	31	HMX	HPI/HPT
n-Heptanoic acid	4	HEP	HEWHE I
Heptanol	20	HTX	HTN
Heptene	30	HPX	HTE
Heptyl acetate	34	HPE	1112
*Herbicide (C15-H22-NO2-CI), see Metolachlor	34		MCO
Hexaethylene glycol, see Polyethylene glycol	40		Wice
Hexamethylene glycol	20		
Hexamethylenediamine adipate solution	43	HAM	
Hexamethylenediamine solution	7	HMC	HMD
Hexamethylenetetramine	7	HMT	1 11/12
Hexamethylenetetramine solutions	7	HTS	
Hexamethylenimine	7	HMI	
Hexane	² 31	HXS	IHA/HXA
Hexanoic acid	4	HXO	, (1.7.0.1
Hexanol	20	HXN	
*Hexene	30	HEX	HXE/HXT/MPN/MTN
Hexyl acetate	34	HAE	HSA
Hexylene glycol	20	HXG	
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Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Hydrochloric acid	1	HCL	
*Hydrofluorosilicic acid, see Fluorosilicic acid	_{_1} 1	HFS	FSJ
Hydrogen peroxide solutions	10		HPN/HPS/HPO
2-Hydroxyethyl acrylate	^{1,2} 0	HAI	
N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution	43	HET	
2-Hydroxy-4-(methylthio)butanoic acid	4	HBA	
Hydroxy terminated polybutadiene, see polybutadiene,	20		
hydroxyl terminated	240	IDII	
Isophorone	² 18	IPH	
Isophorone diamine	7	IPI IPD	
Isophorone diisocyanate	12 30	IPD IPR	
Isoprene Isopropylbenzene(cumene), see Propylbenzene	32	CUM	PBY/CUM
Jet Fuels:	32	COIVI	F D I / COIVI
JP-4	33	JPF	
JP-5	33	JPV	
JP-8	33	JPE	
Kaolin clay slurry	43		
Kerosene	33	KRS	
Ketone residue	18		
Kraft black liquor	05		KPL
Kraft pulping liquors (Black, Green, or White)	05	KPL	
Lactic acid	² 0	LTA	
Lactonitrile solution	37	LNI	
Lard	34	>/	
Latex (ammonia inhibited)	30	LTX	1 TV
Latex, liquid synthetic	43	LLS	LTX
Lauric acid	34	LRA	
Lauryl polyglucose (50% or less)	20 34	LAP LEC	
Lecithin (soyabean) Lignin liquor	43	LEC	
Liquid Streptomyces solubles	43		
Long chain alkaryl polyether (C11-C20)	41	LCP	
Long chain alkaryl sulfonic acid (C16-C60)	² 0	LCS	
Long chain alkylphenate/Phenol sulfide mixture	21		
Long chain polyetheramine in alkyl (C2-C4) benzenes	7	LCE	
Magnesium chloride solution	1,20		
Magnesium hydroxide slurry	5		
Magnesium long chain alkaryl sulfonate (C11-C50)	34	MAS	
Magnesium long chain alkyl phenate sulfide (C8-C20)	34	MPS	
Magnesium long chain alkyl salicylate (C11+)	34	MLS	
*Magnesium nonyl phenol sulfide, see Magnesium long chain alkyl phenate sulfide (C8-C20)			MPS
Magnesium sulfonate, see Magnesium long chain sulfonate (C11-C50)	34	MSE	MAS
Maleic anhydride	11	MLA	
Mercaptobenzothiazol, sodium salt solution	05		SMB
Mesityl oxide	² 18	MSO	
Metam sodium solution	07	MSS	SMD

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Methacrylic acid	04	MAD	
Methacrylic resin in Ethylene dichloride	14	MRD	
Methacrylonitrile	15	MET	
Methane	31	MTH	
3-Methoxy-1-butanol	20		
3-Methoxybutyl acetate	34	MOA	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl			
chloroacetanilide, see Metolachlor			
1-Methoxy-2-propyl acetate	34	MPO	
Methoxy triglycol	40	MTG	
Methyl acetate	34	MTT	
Methyl acetoacetate	34	MAE	
Methyl acetylene, propadiene mixture	30	MAP	
Methyl acrylate	14	MAM	
Methyl alcohol	² 20	MAL	
Methylamine solution	7	MSZ	
Methyl amyl acetate	34	MAC	
*Methyl amyl alcohol	20	MAA	MIC
Methyl amyl ketone	18	MAK	
Methyl bromide	36	MTB	
Methyl butenol	20	MBL	
Methyl butyl ketone	18	MBK	
Methyl tert-butyl ether	² 41	MBE	
Methylbutynol	20	MBY	
3-Methyl butyraldehyde	19		
Methyl butyrate	34	MBU	
Methyl chloride	36	MTC	
Methylcyclohexane	31	MCY	
Methylcyclopentadiene dimer	30	MCK	MAR
Methyl diethanolamine	8	MDE	MAB
2-Methyl-6-ethyl aniline	210	MEN	
Methyl ethyl ketone	² 18	MEK	
2-Methyl-5-ethylpyridine	9	MEP	
Methyl formate	34	MFM	
N-Methylglucamine solution	43	MGC	
N-Methylglucamine solution (70% or less)	43	MGC	
Methyl heptyl ketone	18	MHK	
2-Methyl-2-hydroxy-3-butyne	20	MHB	NAALC
Methyl isoamyl ketone	18	MIC	MAK
Methyl isobutyl carbinol, see Methyl amyl alcohol	20 240	MIC	MAA
Methyl isobutyl ketone	² 18	MIK	
Methyl methacrylate	14	MMM	
3-Methyl-3-methoxybutanol	20		
3-Methyl-3-methoxybutyl acetate	34	NANIA	
Methyl naphthalene	32	MNA	
Methylolureas	19	MUS	ILIΛ
2-Methyl 1 pentage and Havens	31	MDM	IHA
2-Methyl-1-pentene, see Hexene	30	MPN	HEX
*4-Methyl-1-pentene, see Hexene	30	MTN	HEX
Methyl propyl ketone	18	MKE	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Methylpyridine	9		MPR/MPE/MPF
N-Methyl-2-pyrrolidone	² 9	MPY	
Methyl Salicylate	34	MES	
alpha-Methylstyrene	30	MSR	
Metolachlor	34	MCO	
Milk	43		
Mineral spirits	33	MNS	
Molasses	20		
Molasses residue	0		
Monochlorodifluoromethane	36	MCF	
Morpholine	² 7	MPL	
Motor fuel anti-knock compounds containing lead alkyls	¹ 0	MFA	
Myrcene	30	MRE	
Naphtha:			
Aromatic	33		
Coal tar solvent	33	NCT	
Cracking fraction	² 33		
Heavy	33		
Paraffinic	33		
Petroleum	33	PTN	
Solvent	33	NSV	
Stoddard Solvent	33	NSS	
Varnish Makers' and Painters'	33	NVM	
Naphthalene	32	NTM	
Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution	0	NFS	
Naphthalene sulfonic acid, sodium salt solution	34	NSA	
Naphthenic acids	4	NTI	
Naphthenic acid, sodium salt solution	43	NTS	
Neodecanoic acid	.4	NEA	
Nitrating acid	¹ 0	NIA	
Nitric acid (70% or less)	_. 3	NCD	
Nitric acid (Greater than 70%)	¹ 0		NAC
Nitrobenzene	42	NTB	
o-Nitrochlorobenzene, see Chloronitrobenzene	42		CNO/CNP
Nitroethane	42	NTE	
o-Nitrophenol	1,20	NTP	NIP/NPH
Nitropropane	42	NPM	NPN/NPP
Nitropropane, Nitroethane mixture	42		NNM/NNL
Nitrotoluene	42	NIT	NIE/NTT/NTR
Nonane	31	NAX	NAN
Nonanoic acid	4	NNA	NAI/NIN
Nonanoic, Tridecanoic acid mixture	4	NAT	NIONI/NINIE
*Nonene	30	NOO	NON/NNE
Nonyl acetate	34	NAE	NINII/NININI/DDC
*Nonyl alcohol	² 20	NNS	NNI/NNN/DBC
Nonyl methacrylate	14	NMA	
Nonylphenol	21	NNP	NDE
Nonyl phenol (ethoxylated)	40	NDE	NPE
Nonyl phenol poly(4-12)ethoxylates	40	NPE	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
*Nonyl phenol sulfide solution, see Alkyl phenol sulfide (C8-C40)		-	AKS/NPS
Noxious Liquid Substance, n.o.s. (NLS's) 1-Octadecene Octadecenoamide Octane *Octanoic acid Octanol Octene n-Octyl acetate *Octyl alcohol, see (Octanol) *Octyl aldehyde Octyl decyl adipate Octyl nitrate, see Alkyl (C7-C9) nitrates Octyl phenol Octyl phthalate, see Dialkyl (C7-C13) phthalates	0 30 10 31 4 ² 20 30 34 ² 20 19 34 ² 34 21 34	ODD OAX OAY OCX OTX OAF OCX OAL ODA ONE	IOO/OAN OAA/EHO IOA/OTA/EHX OTE OAE IOA/OTA IOC/OLX/EHA AKN DAH
Oil, edible: Beechnut *Castor Cocoa butter Coconut Cod liver *Corn *Cottonseed *Fish Groundnut Hazelnut *Lard Maize Nutmeg butter *Olive *Palm *Palm kernel *Peanut Poppy Poppy seed Raisin seed *Rice bran *Safflower Salad Sesame *Soya bean *Sunflower seed *Tucum *Vegetable Walnut Oil, fuel:	34 34 34 34 34 34 34 34 34 34 34 34 34 3	OBN OCA OCB OCC OCC OCC OCS OFS OGN OHN OLD ONB OPN OPN OPY ORA ORP ORB OSF OSL OSS OSN OTC OVG OWN	VEO VEO VEO VEO AFN VEO VEO AFN VEO VEO AFN VEO/OCO VEO VEO VEO VEO VEO VEO VEO VEO VEO VE
No. 1 No. 1-D	33 33	OON OOD	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
No. 2	33	OTW	
No. 2-D	33	OTD	
No. 4	33	OFR	
No. 5	33	OFV	
No. 6	33	OSX	
Oil, misc:	00		
Aliphatic	33	0144	A = N
Animal	34	OMA	AFN
Aromatic Clarified	33 33	OCF	
Coal	33	OCF	
Coconut oil, fatty acid methyl ester	34	ОСМ	
Cotton seed oil, fatty acid	34	CFY	
Crude	33	OIL	
Diesel	33	ODS	
Gas, high pour	33		
Gas, low pour	33		
Gas, low sulfur	33		
Heartcut distillate	33		
Lanolin	34	OLL	AFN
Linseed	33	OLS	
Lubricating	33	OLB	
Mineral	33	OMN	
Mineral seal	33	OMS	
Motor	33	OMT	A = 1.1
*Neatsfoot	33	ONF	AFN
Oiticica	34	001	
Palm oil, fatty acid methyl ester	34	OPE OPT	
Penetrating Perilla	33 34	OPT	
Pilchard	34	OPL	AFN
Pine	33	OPL	ALIN
Residual	33	Oii	
Road	33	ORD	
Rosin	33	ORN	
Seal	34		
Soapstock	34	OIS	
*Soybean (epoxidized)	34		EVO
*Sperm	33	OSP	AFN
Spindle	33	OSD	
Tall	_34	OTL	
Tall, fatty acid	² 34	TOF	
Transformer	33	OTF	
Tung	34	OTG	
Turbine	33	OTB	
Wood	34	OCD	
Olefin/Alkyl ester copolymer (molecular weight 2000+) Olefin mixtures	34 30	OCP	OEV/OEV
alpha-Olefins (C6 - C18) mixtures	30	OAM	OFX/OFY
Olefins (C13+)	30	OVIN	
	30		

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Oleic acid	04	OLA	
Oleum	^{1,2} 0	OLM	
Oleylamine	10	OLY	
Oxyalkylated alkyl phenol formaldehyde	33		
Palm kernel acid oil	34	PNO	
Palm kernel dacid oil, methyl ester	34	PNF	
*Palm kernel oil, fatty acid, see Palm kernel acid oil			
*Palm kernel oil, fatty acid methyl ester, see Palm kernel			
acid oil, methyl ester	24	DMC	
Palm stearin	34 31	PMS PFN	
n-Paraffins (C10 - C20), see n-Alkanes (C10+)	19	PDH	
Paraldehyde Pentachloroethane	36	PCE	
Pentadecanol, see alcohols (C13+)	20	PDC	ALY
1,3-Pentadiene	30	PDE	PDN
Pentaethylenehexamine	7	PEN	1 514
Pentaethylenehexamine, Tetraethylenepentamine mixture	7	PEP	
Pentane	31	PTY	IPT/PTA
Pentanoic acid	4	POC	,,.
Pentene	30	PTX	PTE
Pentene, Miscellaneous hydrocarbon mixture	² 30		
Pentyl aldehyde	19		
n-Pentyl propionate	34	PPE	
Perchloroethylene	36	PER	
Petrolatum	33	PTL	
Phenol	21	PHN	
1-Phenyl-1-xylyl ethane	32	PXE	
Phosphoric acid	_{_1} 1	PAC	
Phosphorus	¹ 0		PPW/PPR/PPB
Phthalic anhydride (molten)	11	PAN	
Phthalate based polyester polyol	² 0	PBE	
alpha-Pinene	30	PIO	
beta-Pinene *Pinene	30 30	PIP PIN	PIO/PIP
*Pine oil	33	PNL	OPI
Polyalkyl (C18 - C22) acrylate in Xylene	14	PIX	OFI
Polyalkylene glycol butyl ether, see Poly(2-8) alkylene	40		PAG
glycol monoalkyl (C1-C6) ether	40	1 00	1710
Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether	40	PAG	
Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether acetate	34	PAF	
Polyalkylene glycols, polyalkylene glycol monoalkyl ethers	40	PPX	
mixtures			
Polyalkylene oxide polyol	20	PAO	
Polyalkyl methacrylate (C1-C20)	14	PMT	
Polyaluminum chloride solution	1		
Polybutadiene, hydroxyl terminated	20		
Polybutene	30	PLB	
Polybutenyl succinimide	10	PBS	
Poly(2+)cyclic aromatics	32	PCA	
Polydimethylsiloxane	34		

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Polyether (molecular weight 2000+) Polyethylene glycol	41 40	PYR	
Polyethylene glycol dimethyl ether	40		
Polyethylene glycol monoalkyl ether, see Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether	40	PEE	PAG
Polyethylene polyamines	² 7	PEB	
Polyferric sulfate solution	34	PSS	
Polyglycerine, Sodium salts solution (containing less than 3% Sodium hydroxide)	² 20	PGT	
Polyglycerol	20		GCR
Poly(4+)isobutylene	30		
Polymethylene polyphenyl isocyanate	12	PPI	
Polymethylsiloxane	34		
Polyolefin (molecular weight 300+)	30		
Polyolefin amide alkeneamine (C28+)	7	POD	
Polyolefin amide alkeneamine borate (C28-C250)	34	PAB	
Polyolefin amide alkeneamine/Molybdenum oxysulfide mixture	7		
Polyolefin amide alkeneamine polyol	7	PAP	
Polyolefinamine in alkyl(C2-C4)benzenes	7	POF	
Polyolefin anhydride	11	PAR	
Polyolefin ester (C28-C250)	34	POS	
Polyolefin phenolic amine (C28-C250)	7	PPH	
Polyolefin phosphorosulfide, barium derivative (C28-C250)	34	PPS	
Poly(20)oxyethylene sorbitan monooleate	34	PSM	
Polypropylene	30	PLP	
Poly(5+)propylene	30	PLQ	
Polypropylene glycol	40	PGC	
Polypropylene glycol methyl ether	40	PGM	
*Polysiloxane	34		DMP
Potassium chloride solution	43	PCS	(DRB)
Potassium hydroxide solution	² 5		CPS
Potassium oleate	34	POE	
Potassium polysulfide, Potassium thiosulfide solution (41% or less)	0	PTG	
Potassium thiosulfate solution	43	PTF	
Propane	31		
Propanil, Mesityl oxide, Isophorone mixture	7	PMI	
Propanolamine	8	PAX	MPA/PLA
Propionaldehyde	19	PAD	
Propionic acid	4	PNA	
Propionic anhydride	11	PAH	
Propionitrile	37	PCN	
n-Propoxypropanol, see Propylene glycol monoalkyl ether	40	PXP	PGE
Propyl acetate	34		IAC/PAT
Propyl alcohol	² 20		IPA/PAL
Propyl amine	7	DE::	IPO/IPP/PRA
Propylbenzene	32	PBY	PBZ/CUM
n-Propyl chloride	36	PRC	
iso-Propylcyclohexane	31	IPX	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Propylene	30	PPL	
Propylene butylene polymer	30	PBP	
Propylene carbonate	34		
Propylene dimer	30	PDR	
Propylene glycol	² 20	PPG	
Propylene glycol n-butyl ether, see Propylene glycol monoalkyl ether	40	PGD	PGE
Propylene glycol ethyl ether, see Propylene glycol monoalkyl ether	40	PGY	PGE
Propylene glycol methyl ether, see Propylene glycol monoalkyl ether	40	PME	PGE
Propylene glycol methyl ether acetate	34	PGN	
Propylene glycol monoalkyl ether	40	PGE	PME/PGY
Propylene glycol propyl phenyl ether	40	PGP	
Propylene glycol propyl ether, see Propylene glycol monoalkyl ether	40		PGE
Propylene oxide	16	POX	
Propylene tetramer	30	PTT	
Propylene trimer	30	PTR	
Propyl ether	41		IPE/PRE
*Pseudocumene, see Trimethylbenzene	32	DDD	TME/TRE
Pyridine Dividing house	9	PRD	
Pyridine bases	9	PRB ORN	
Rosin oil Rosin soon (dispreparticipated) solution	33 43	RSP	
Rosin soap (disproportionated) solution *Rum, see Alcoholic beverages	20	NOF	
Sewage sludge	43		
Silica slurry	43		
Sludge, treated	43		
Sodium acetate, Glycol, Water mixture (not containing	² 34	SAO	SAP
Sodium hydroxide)	•	0, 10	
Sodium acetate, Glycol, Water mixture (containing Sodium hydroxide)	5	SAP	SAO
Sodium acetate solution	34	SAN	
Sodium alkyl sulfonate solution	43	SSU	
Sodium aluminate solution	5	SAU	
Sodium aluminosillicate slurry	34		
Sodium benzoate solution	34	SBN	07.1/07.
Sodium borohydride, sodium hydroxide solution	5	SBX	SBH/SBI
Sodium carbonate solutions	120	SCE	000
Sodium chlorate solution	^{1,2} 0	SDD	SDC
Sodium cyanide solution	5 1,2	SCS	SCN
Sodium dimethyl popultion	² 34	SDL	SCR DNS
Sodium dimethyl naphthalene sulfonate solution Sodium hydrogen sulfide, Sodium carbonate solution	² 0	SSS	DNS
Sodium hydrogen sulfite solution	43	SHX	
Sodium hydrosulfide solution	² 5	SHR	
Sodium hydrosulfide, Ammonium sulfide solution	² 5	SSA	
Sodium hydroxide solution	² 5	00/1	CSS
Sodium hypochlorite solution	5	SHP	SHC

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Sodium long chain alkyl salicylate (C13+)	34		
Sodium 2-mercaptobenzothiazol solution	5	SMB	
Sodium naphthalene sulfonate solution	34	SNS	
Sodium naphthenate solution, see Naphthenic acid, sodium salt solution	5		
Sodium nitrite solution	5	SNI	SNT
Sodium petroleum sulfonate	_33	SPS	
Sodium polyacrylate solution	² 43		
Sodium salt of Ferric hydroxyethylethylenediamine	43	STA	FHX
triacetic acid solution	2		
Sodium silicate solution	² 43	SSN	SSC
Sodium sulfide, hydrosulfide solution	^{1,2} 0	000	SSH/SSI/SSJ
Sodium sulfide solution	43	SDR	CLIC
Sodium sulfite solution	43	SUP	SUS
Sodium tartrates, Sodium succinates solution	43 1,2	STM	SCV
Sodium thiocyanate solution Sorbitol solutions	20	STS	SCY SBT
Soyabean oil (epoxidized)	34		OSC/EVO
Stearic acid, see Fatty acids (saturated, C13+)	34	SRA	FAD
Stearyl alcohol	20	OIVA	IAD
Styrene	30	STY	STX
Sulfolane	39	SFL	
Sulfohydrocarbon (C3-C88)	33	SFO	
Sulfohydrocarbon, long chain (C18+) alkylamine mixture	7	SFX	
Sulfonated polyacrylate solutions	² 43		
Sulfur	10	SXX	
Sulfuric acid	² 2	SFA	
Sulfuric acid, spent	2	SAC	
Tall oil	34	OTL	
Tall oil fatty acid, barium salt	² 0	TOB	
Tall oil soap (disproportionated) solution	43	TOS	
Tallow	² 34 ² 34	TLO	
Tallow fatty alcohol, and Alcohola (C13+)	34 20	TFD TFA	ALY
Tallow fatty alcohol, see Alcohols (C13+) Tallow nitrile	37	TAN	ALI
1,1,2,2-Tetrachloroethane	36	TEC	
*Tetradecanol, see Alcohols (C13+)	20		ALY
*Tetradecene, see the olefins entries	30	TTD	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tetradecylbenzene	32	TDB	AKB
Tetraethylene glycol	40	TTG	
Tetraethylenepentamine	7	TTP	
Tetrahydrofuran	41	THF	
Tetrahydronaphthalene	32	THN	
*1,2,3,5-Tetramethylbenzene, see Tetramethylbenzene	32	TTB	TTC
Tetramethylbenzene	32	TTC	TTB
Tetrapropylbenzene, see Alkyl(C9+)benzenes	32		AKB
Tetrasodium salt of EDTA solution	43		EDS
Titanium tetrachloride	2	TTT	
Toluene	32	TOL	
Toluenediamine	9	TDA	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
Toluene diisocyanate	12	TDI	
o-Toluidine	9	TLI	
*Triarylphosphate, see Triisopropylated phenyl phosphates	34		TPL
Tributyl phosphate	34	TBP	
1,2,4-Trichlorobenzene	₂ 36	TCB	
1,1,1-Trichloroethane	² 36	TCE	
1,1,2-Trichloroethane	₂ 36	TCM	
Trichloroethylene	² 36	TCL	
1,2,3-Trichloropropane	36	TCN	
1,1,2-trichloro-1,2,2-trifluoroethane	36	TTF	T00/T0D
Tricresyl phosphate	34	TDD	TCO/TCP
*Tridecane, see n-Alkanes (C10+)	31	TRD	
Tridecanoic acid	34	TDN	
*Tridecanol, see Alcohols (C13+)	20	TDN	ALY
*Tridecene, see Olefins (C13+)	30 34	TDC	
Tridecyl acetate	32	TAE TRB	AKB
Tridecylbenzene Triethanolamine	² 8	TEA	AND
Triethylamine Triethylamine	7	TEN	
Triethylbenzene	32	TEB	
Triethylene glycol	40	TEG	
Triethylene glycol butyl ether, see Poly(2-8) alkylene	40	120	PAG
glycol monoalkyl (C1-C6) ether			1710
Triethylene glycol butyl ether mixture	40	TOD	
Triethylene glycol di-(2-ethylbutyrate)	34	TGD	
Triethylene glycol ether mixture	40	тог	DAC
Triethylene glycol ethyl ether, see Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether	40	TGE	PAG
Triethylene glycol methyl ether, see Poly(2-8) alkylene glycol monoalkyl (C1-C6) ether	40	TGY	PAG
Triethylenetetramine	² 7	TET	
Triethyl phosphate	234	TPS	
Triethyl phosphite	² 34	TPI	
Trifluralin in Xylene	18	TFX	
Triisobutylene	30	TIB	
Triisooctyl trimellitate	34	TID	
Triisopropanolamine	8	TIP	
Triisopropanolamine salt of 2,4-Dichlorophenoxyacetic acid solution	43		
Triisopropylated phenyl phosphates	34	TPL	
Trimethylacetic acid	4	TAA	
Trimethylamine solution	7	TMT	T145 (T145 (T145
Trimethylbenzene	32	TRE	TME/TMB/TMD
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-)	7	THA	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-)	12	THI	
Trimethylol propane polyethoxylate	20	TPR	
2,2,4-Trimethyl pentanediol-1,3-diisobutyrate, see 2,2,4- Trimethyl-1,3-pentanediol diisobutyrate			
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	34	TMQ	
=,=,	5-4	1 1VI 🔾	

Chemical Name	Group No.	CHRIS Code	Related CHRIS codes
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	34	TMP	
2,2,4-Trimethyl-3-pentanol-1-isobutyrate	34		
Trimethyl phosphite	² 34	TPP	
1,3,5-Trioxane	² 41	TRO	
Triphenylborane, Caustic soda solution	5	TPB	
*Tripropylene, see Propylene trimer	30		PTR
Tripropylene glycol	40	TGC	
*Tripropylene glycol methyl ether, see Poly (2-8) alkylene	40	TGM	PAG
glycol monoalkyl (C1-C6) ether	24		
Trisodium nitrilotriacetate	34	TOD	
Trisodium phosphate solution	5	TSP	TDD
Trisylyl Phosphate, see Trixylenyl phosphate	34	TDD	TRP
Trixylenyl phosphate	34	TRP	
Turpentine	30	TPT	
Undecanoic acid	4	UDA	LIND
Undecanol, see Undecyl alcohol Undecene	20 30	UDC	UND
	20	UND	
Undecyl alcohol	32	UDB	AKB
Undecylbenzene	32 0	UPX	AND
Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution	U	UFA	
Urea, Ammonium nitrate solution (containing Ammonia)	6	UAS	
Urea, Ammonium nitrate solution (not containing	43	UAT	ANU
Ammonia)	70	OAT	AIVO
Urea, Ammonium phosphate solution	43	UAP	
Urea solution	43	O7 ti	URE
Valeraldehyde	19	VAK	IVA/VAL
Vanillin black liquor	5	VBL	
Vegetable acid oils and distillates, n.o.s.	34	VAO	
Vegetable oils, n.o.s.	34	VEO	
Vegetable protein solution	43	•	
Vinyl acetate	13	VAM	
Vinyl chloride	35	VCM	
Vinyl ethyl ether	13	VEE	
Vinylidene chloride	35	VCI	
Vinyl neodecanoate	13	VND	
Vinyltoluene	13	VNT	
Water	43		
Waxes:		WAX	
Candelilla	34	WDC	
Carnauba	34	WCA	
Paraffin	31	WPF	
Petroleum	33		
White Spirit (low(15-20%) aromatic)	33	WSL	WSP
Xylene	32	XLX	XLM/XLO/XLP
Xylenols	21	XYL	
Zinc alkaryl dithiophosphate (C7-C16)	34	ZAD	
Zinc alkenyl carboxamide	10	ZAA	
Zinc alkyl dithiophosphate (C3-C14)	34	ZAP	D7D
Zinc bromide, Calcium bromide solution see Drilling brine	43		DZB

Chemical Name

Group CHRIS Related CHRIS codes No. Code

(containing Zinc salts

FOOTNOTES TO TABLE

Items with an asterisk (*) are changes per CGD 92-100.

¹ Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001. Telephone (202) 267-1577.

² See Table 7.3 - Exceptions to the Chart.

TABLE 7.2

REACTIVITY GROUPS

0. UNASSIGNED CARGOES

Acetone cyanohydrin^{1,2} Alkylbenzenesulfonic acid^{1,2}

Aluminum chloride, Hydrochloric acid solution Ammonium hydrogen phosphate solution¹

Ammonium nitrate solution

Ammonium thiocyanate, Ammonium thiosulfate solution¹

Benzenesulfonyl chloride^{1,2} gamma-Butyrolactone^{1,2}

Chlorine¹

Chlorosulfonic acid1

Decyloxytetrahydro-thiophene dioxide²

2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution^{1,2}

Dimethylamine salt of 2,4-dichlorophenoxyacetic acid solution^{1,2}

Diphenylol propane-Epichlorohydrin resins¹

Dodecylbenzenesulfonic acid^{1,2} Dodecylhydroxypropyl sulfide²

Ethylene oxide¹ Fluorosilicic acid

2-Hydroxyethyl acrylate^{1,2}

Lactic acid²

Long chain alkaryl sulfonic acid (C16-C60)²

Magnesium chloride solution^{1,2}

Molasses residue¹

Motor fuel anti-knock compounds containing lead alkvls¹

Naphthalene sulfonic acid-formaldehyde copolymer, sodium salt solution¹

Nitrating acid1

Nitric acid (Greater than 70%)1

o-Nitrophenol^{1,2}

Noxious Liquid Substance, n.o.s. (NLS's)¹

Oleum^{1,2} Phosphorus¹

Phthalate based polyester polyol²

Potassium polysulfide, potassium thiosulfide solution (41% or less)

Sodium chlorate solution^{1,2} Sodium dichromate solution^{1,2}

Sodium hydrogen sulfide, Sodium carbonate solution^{1,2}

Sodium sulfide, hydrosulfide solution^{1,2}

Sodium thiocyanate solution^{1,2}

Sulfur¹

Tall oil fatty acid, barium salt²

Urea, Ammonium mono- and di-hydrogen phosphate, Potassium chloride solution

1. NON-OXIDIZING MINERAL ACIDS

Di-(2-ethylhexyl)phosphoric acid

Ferric chloride solution

Fluorosilicic acid

Hydrochloric acid

Phosphoric acid

Polyaluminum chloride solution

2. SULFURIC ACIDS

Sulfuric acid²
Sulfuric acid, spent
Titanium tetrachloride

3. NITRIC ACID

Ferric nitrate, Nitric acid solution Nitric acid (70% or less)

4. ORGANIC ACIDS

Acetic acid²

Acrylic acid²

Butyric acid

Cashew nut shell oil (untreated)

Chloroacetic acid solution

Chloropropionic acid

Citric acid

Decanoic acid

2,2-Dichloroproprionic acid

2.2-Dimethyloctanoic acid

2-Ethylhexanoic acid

Formic acid²

Glvoxvlic acid

n-Heptanoic acid

Hexanoic acid

2-Hydroxy-4-(methylthio)butanoic acid

Methacrylic acid

Naphthenic acids

Neodecanoic acid

Nonanoic acid

Nonanoic, tridecanoic acid mixture

Octanoic acid

Pentanoic acid

Propionic acid

Trimethylacetic acid Undecanoic acid

5. CAUSTICS

Ammonium sulfide solution

Calcium hypochlorite solutions

Caustic potash solution²

Caustic soda solution²

Cresylate spent caustic

Cresylic acid, sodium salt solution

Kraft black liquor

Kraft pulping liquors

Mercaptobenzothiazol, sodium salt solution

Potassium hydroxide solution²

Sodium acetate, glycol, water mixture

(containing sodium hydroxide)
Sodium aluminate solution

Sodium borohydride, sodium hydroxide solution

Sodium carbonate solutions

Sodium cyanide solution

Sodium hydrosulfide solution²

Sodium hydrosulfide, Ammonium sulfide solution²

Sodium hydroxide solution²

Sodium hypochlorite solution

Sodium 2-mercaptobenzothiazol solution

Sodium naphthenate solution

Sodium nitrite solution

Triphenylborane, caustic soda solution

Trisodium phosphate solution

Vanillin black liquor

6. AMMONIA

Ammonia, anhydrous

Ammonia, aqueous

Ammonium hydroxide (28% or less ammonia)

Ammonium nitrate-urea solution (containing ammonia)

Urea, Ammonium nitrate solution (containing Ammonia)

7. ALIPHATIC AMINES

N-Aminoethyl piperazine

Butylamine

Calcium long chain alkyl phenolic amine (C8-C40)

Cyclohexylamine

Dibutyl amine

Diethylamine²

Diethylenetriamine

Diisobutylamine

Diisopropylamine

Dimethylamine

Dimethylamine solution

N,N-Dimethylcyclohexylamine

Di-n-propylamine

Diphenylamine, reaction product with 2,2,4-

trimethylpentene

Diphenylamines, alkylated

Dodecylamine, tetradecylamine mixture²

 $Dodecylmethylamine, \, tetra decyldimethylamine \,$

mixture

Ethylamine²

Ethylamine solution

N-Ethyl-n-butylamine

N-Ethylcyclohexylamine

Ethylenediamine²

2-Ethylhexylamine

Hexamethylenediamine solution

Hexamethylenetetramine

Hexamethylenetetramine solutions

Hexamethylenimine

Isophorone diamine

Long chain polyetheramine in alkyl (C2-C4)

benzenes

Metam sodium solution

Methylamine solution

Morpholine²

Pentaethylenehexamine

Pentaethylenehexamine,

Tetraethylenepentamine mixture

Polyalkyl methacrylate (C1-C20)

Polyolefin amide alkeneamine (C28+)

Polyolefin amide alkeneamine/Molybdenum

oxysulfide mixture

Polyethylene polyamines²

Polyolefin amide alkeneamine polyol

Polyolefinamine in alkyl (C2-C4) benzenes

Polyolefin phenolic amine (C28-C250)

Propanil, mesityl oxide, isophorone mixture

Propyl amine

Sulfohydrocarbon, long chain (C18+) alkylamine

mixture

Tetraethylenepentamine

Triethylamine

Triethylenetetramine²

Trimethylamine solution

Trimethylhexamethylenediamine (2,2,4- and

2,4,4-)

8. ALKANOLAMINES

2-(2-Aminoethoxy)ethanol

Aminoethyldiethanolamine,

Aminoethylethanolamine solution

Aminoethylethanolamine

2-Amino-2-methyl-1-propanol

Diethanolamine

Diethylaminoethanol

Diethylethanolamine
Diisopropanolamine
Dimethylethanolamine
Ethanolamine
Propanolamine
Triethanolamine²
Triisopropanolamine

9. AROMATIC AMINES

Aniline

4-Chloro-2-methylphenoxyacetic acid, Dimethylamine salt solution

2,6-Diethylaniline

Dimethylamine salt of 4-Chloro-2methylphenoxyacetic acid solution

2,6-Dimethylaniline

2-Ethyl-6-methyl-N-(1'-methyl-2-methoxyethyl)aniline

2-Methyl-6-ethyl aniline

2-Methyl-5-ethyl pyridine

Methylpyridine 3-Methylpyridine N-Methyl pyrrolidone Pyridine

Pyridine bases Toluenediamine

p-Toluidine

10. AMIDES

Acrylamide solution Alkenyl (C11+) amide N,N-Dimethylacetamide N,N-Dimethylacetamide solution Dimethylformamide Formamide Octadecenoamide

11. ORGANIC ANHYDRIDES

Acetic anhydride
Alkenylsuccinic anhydride
Maleic anhydride
Phthalic anhydride
Polyolefin anhydride
Propionic anhydride

12. ISOCYANATES

Diphenylmethane diisocyanate Isophorone diisocyanate Polymethylene polyphenyl isocyanate Toluene diisocyanate Trimethylhexamethylene diisocyanate (2,2,4-and 2,4,4-)

13. VINYL ACETATE

Vinyl acetate
Vinyl ethyl ether
Vinyl neodecanoate
Vinyl toluene

14. ACRYLATES

Butyl acrylate Butyl methacrylate Butyl methacrylate, decyl methacrylate, cetyl eicosyl methacrylate mixture Cetyl eicosyl methacrylate mixture Decyl acrylate Dodecylmethacrylate Dodecyl, pentadecyl methacrylate mixture Ethyl acrylate 2-Ethylhexyl acrylate Ethyl methacrylate Methacrylic resin in ethylene dichloride Methyl acrylate Methyl methacrylate NonvI methacrvlate Polyalkyl (C18 - C22) acrylate in Xylene Polyalkyl methacrylate (C1-C20)

15. SUBSTITUTED ALLYLS

Acrylonitrile²
Allyl alcohol²
Allyl chloride
1,3-Dichloropropene
Dichloropropene, dichloropropane mixture
Methacrylonitrile

16. ALKYLENE OXIDES

Butylene oxide Ethylene oxide, Propylene oxide mixture Propylene oxide

17. EPICHLOROHYDRIN

Chlorohydrins Epichlorohydrin

18. KETONES

Acetone²
Acetophenone
Amyl methyl ketone
Butyl heptyl ketone
Camphor oil
Cyclohexanone

Cyclohexanone, cyclohexanol mixture²

Diisobutyl ketone
Epoxy resin
Ethyl amyl ketone
Isophorone²
Ketone residue
Mesityl oxide²
Methyl amyl ketone
Methyl butyl ketone
Methyl diethenaolamine
Methyl ethyl ketone²
Methyl heptyl ketone
Methyl isoamyl ketone
Methyl isobutyl ketone
Methyl isobutyl ketone²
Methyl propyl ketone

19. ALDEHYDES

Trifluralin in xylene

Acetaldehyde
Acrolein²
Butyraldehyde
Crotonaldehyde²
Decaldehyde
Ethylhexaldehyde
2-Ethyl-3-propylacrolein²
Formaldehyde solution²

Formaldehyde, Methanol mixtures²

Furfural

Glutaraldehyde solution Glyoxal solutions 3-Methyl butyraldehyde

Methylolureas Octyl aldehyde Paraldehyde Pentyl aldehyde Propionaldehyde Valeraldehyde

20. ALCOHOLS, GLYCOLS

Acrylonitrile-Styrene copolymer dispersion in

Polyether polyol Alcoholic beverages Alcohol polyethoxylates

Alcohol polyethoxylates, secondary

Alcohols (C13 and above)

Amyl alcohol Behenyl alcohol

Brake fluid base mixtures

Butyl alcohol²
Butylene glycol²
Cetyl-stearyl alcohol
Choline chloride solutions

Cyclohexanol Decyl alcohol² Diacetone alcohol²
Diisobutylcarbinol

2,2-Dimethylpropane-1,3-diol

Dodecanol Dodecyl alcohol

Ethoxylated alcohols, C11-C15

2-Ethoxyethanol Ethyl alcohol² Ethyl butanol

Ethylene chlorohydrin Ethylene cyanohydrin Ethylene glycol² 2-Ethylhexanol Furfuryl alcohol² Glycerine²

Glycerine, dioxanedimethanol mixture

Glycerol monooleate

Heptanol

Hexamethylene glycol

Hexanol Hexylene glycol

Hydroxy terminated polybutadiene Lauryl polyglucose (50% or less)

3-Methoxy-1-butanol Methyl alcohol² Methyl amyl alcohol Methyl butenol Methylbutynol

2-Methyl-2-hydroxy-3-butyne Methyl isobutyl carbinol 3-Methyl-3-methoxybutanol

Molasses Nonyl alcohol² Octanol² Octyl alcohol² Pentadecanol

Polyalkylene oxide polyol

Polybutadiene, hydroxyl terminated

Polyglycerol

Polyglycerine, sodium salts solution (containing

less than 3% sodium hydroxide)²

Propyl alcohol²
Propylene glycol²
Rum

Sorbitol solutions Stearyl alcohol Tallow fatty alcohol Tetradecanol

Tridecanol
Trimethylol propane polyethoxylate

Undecanol Undecyl alcohol

21. PHENOLS, CRESOLS

Benzyl alcohol

Carbolic oil Creosote² Cresols

Cresylic acid

Cresylic acid dephenolized

Cresylic acid, tar 2,4-Dichlorophenol Dodecyl phenol o-Ethyl phenol

Long chain alkylphenate/phenol sulfide mixture

Nonylphenol Octyl phenol Phenol **Xylenols**

22. CAPROLACTAM SOLUTIONS

Caprolactam solution

23-29. UNASSIGNED

30. OLEFINS

Amylene

Arvl polyolefin (C11-C50)

Butadiene

Butadiene, Butylene mixtures (cont. Acetylenes)

Butene

Butene oligomer

Butylene

1,5,9-Cyclododecatriene 1,3-Cyclopentadiene dimer

Cyclopentene Decene

Dicyclopentadiene Diisobutvlene Dipentene Dodecene Ethylene

Ethylene-propylene copolymer

Ethylidene norbornene²

1-Heptene Hexene Isoprene

Latex (ammonia (1% or less) inhibited) Methyl acetylene, propadiene mixture

Methylcyclopentadiene dimer

2-Methyl-1-pentene 4-Methyl-1-pentene alpha-Methyl styrene

Myrcene Nonene 1-Octadecene Octene

Olefin mixtures

alpha-Olefins (C6 - C18) mixtures

alpha-Olefins (C13 and above)

1.3-Pentadiene

Pentene

Pentene, Miscellaneous hydrocarbon mixture²

alpha-Pinene beta-Pinene Polybutene

Poly(4+)isobutylene

Polyolefin (molecular weight 300+)

Polypropylene Poly(5+)propylene

Propylene

Propylene butylene polymer

Propylene dimer Propylene tetramer Propylene trimer Styrene

Tetradecene Tridecene Triisobutylene Tripropylene Turpentine Undecene

31. PARAFFINS

Alkanes (C6-C9) n-Alkanes (C10+)

iso- & cyclo- Alkanes (C10-C11) iso- & cyclo- Alkanes (C12+)

Butane Cycloheptane Cyclohexane Cyclopentane Decane Dodecane Ethane

Ethyl cyclohexane

Heptane Hexane² Methane

Methylcyclohexane 2-Methyl pentane

Nonane Octane Pentane Propane

iso-Propylcyclohexane

Tridecane Waxes: Paraffin

32. AROMATIC HYDROCARBONS

Alkyl (C3-C4) benzenes Alkyl (C5-C8) benzenes Alkyl (C9+) benzenes

Alkyl acrylate-Vinyl pyridine copolymer in Distillates: straight run Drilling mud (low toxicity) (if flammable or Toluene Alkylbenzene, alkylindane, alkylindene mixture combustible) (each C12-C17) Gas oil: cracked Benzene Gasoline blending stocks: alkylates Benzene, Hydrocarbon mixture (10% benzene Gasoline blending stocks: reformates or more) Gasolines: Benzene, Toluene, Xylene mixture Automotive (not over 4.23 grams lead per Butylbenzene Butyl phenol, Formaldehyde resin in Xylene Aviation (not over 4.86 grams lead per gal.) Butyl toluene Casinghead (natural) Cumene Polymer Straight run Cymene Decylbenzene Jet Fuels: Dialkyl(C10 - C14) benzenes JP-4 JP-5 Diethylbenzene Diisopropylbenzene JP-8 Diisopropyl naphthalene Kerosene Diphenyl Mineral spirits Dodecylbenzene Naphtha: Dodecylxylene Coal tar solvent Ethyl benzene Petroleum Ethyl toluene Solvent Isopropylbenzene Stoddard solvent Methyl naphthalene Varnish Makers' and Painters' Naphthalene Oil. fuel: 1-Phenyl-1-xylyl ethane No. 1 Poly(2+)cyclic aromatics No. 1-D Propylbenzene No. 2 Pseudocumene No. 2-D Tetradecylbenzene No. 4 Tetrahydronaphthalene No. 5 1,2,3,5-Tetramethylbenzene No. 6 Toluene Oil. misc: Tridecylbenzene Aliphatic Triethylbenzene Aromatic Trimethylbenzene Clarified Undecylbenzene Coal Xvlene Crude Diesel 33. MISCELLANEOUS HYDROCARBON Gas, high pour **MIXTURES** Heartcut distillate Linseed Lubricating Alachlor technical Alkylbenzenesulfonic acid, sodium salt solutions Mineral Alkyl dithiothiadiazole (C6-C24) Mineral seal Asphalt blending stocks: roofers flux Motor Asphalt blending stocks: straight run residue Neatsfoot Aviation alkylates Penetrating Calcium sulfonate, Calcium carbonate, Pine Hydrocarbon solvent mixture Rosin Coal tar Sperm Coal tar pitch Spindle Decahydronaphthalene Turbine Diphenyl, Diphenyl ether Residual

Road

Distillates: flashed feed stocks

Transformer

Oxyalkylated alkyl phenol formaldehyde

Petrolatum Pine oil

Sodium petroleum sulfonate Sulfohydrocarbon (C3-C88)

Waxes: Petroleum

White Spirit (low(15-20%) aromatic)

34. ESTERS

Alkane (C14-C17) sulfonic acid, sodium salt solution

Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture

Alkyl ester copolymer (C6-C18)

Alkyl (C7-C9) nitrates²

Alkyl phenol sulfide (C8-C40)

Amyl acetate

Animal and fish oils, n.o.s.

Animal and fish acid oils and distillates, n.o.s. Barium long chain alkaryl sulfonate (C11-C50)

Barium long chain alkyl (C8-C14) phenate sulfide

Benzene tricarboxylic acid, trioctyl ester

Benzylacetate Butyl acetate

Butvl benzvl phthalate

n-Butyl butyrate **Butyl formate**

iso-Butyl isobutyrate n-Butyl propionate

Calcium alkyl(C9)phenol sulfide, polyolefin

phosphorosulfide mixture

Calcium long chain alkaryl sulfonate (C11-C50) Calcium long chain alkyl phenate (C8-C40) Calcium long chain alkyl phenate sulfide (C8-

Calcium long chain alkyl salicylate (C13+) Calcium nitrate, Magnesium nitrate, Potassium

chloride solution

Cobalt naphthenate in solvent naphtha

Coconut oil, fatty acid Cottonseed oil, fatty acid Cyclohexyl acetate Decyl acetate

Dialkyl(C7 - C13) phthalates Dibutyl hydrogen phosphonate

Dibutyl phthalate

Diethylene glycol butyl ether acetate Diethylene glycol ethyl ether acetate Diethylene glycol methyl ether acetate

Diethylene glycol phthalate Di-(2-ethylhexyl)adipate Di-(2-ethylhexyl)phthalate

Diethyl phthalate

Diethyl sulfate

Diheptyl phthalate

Dihexvl phthalate

Di-n-hexyl adipate

Diisobutyl phthalate

Diisodecyl phthalate

Diisononyl adipate

Diisononyl phthalate

Diisooctyl phthalate

Dimethyl adipate

Dimethylcyclicsiloxane hydrolyzate

Dimethyl glutarate

Dimethyl hydrogen phosphite²

Dimethyl naphthalene sulfonic acid, sodium salt

solution²

Dimethyl phthalate

Dimethylpolysiloxane

Dimethyl succinate

Dinonyl phthalate

Dioctyl phthalate

Dipropylene glycol dibenzoate

Ditridecyl phthalate

2-Dodecenylsuccinic acid, dipotassium salt

solution

Diundecvl phthalate

2-Ethoxyethyl acetate

Ethyl acetate

Ethyl acetoacetate

Ethyl butyrate

Ethylene carbonate

Ethylene glycol acetate

Ethylene glycol butyl ether acetate

Ethylene glycol diacetate

Ethylene glycol ethyl ether acetate Ethylene glycol methyl ether acetate

Ethyl-3-ethoxypropionate Ethyl hexyl phthalate

Ethyl propionate

Fatty acids (saturated, C13+)

Glycerol polyalkoxylate

Glyceryl triacetate

Glycidyl ester of C10 trialkyl acetic acid Glycidyl ester of tridecylacetic acid

Heptyl acetate Hexyl acetate Lauric acid

Lecithin (soyabean)

Magnesium long chain alkaryl sulfonate (C11-

Magnesium long chain alkyl phenate sulfide (C8-C20)

Magnesium long chain alkyl salicylate (C11+)

3-Methoxybutyl acetate

1-Methoxy-2-propyl acetate

Methyl acetate Methyl acetoacetate Methyl amyl acetate Tung Methyl butyrate Olefin/alkyl ester copolymer (molecular weight 2000+) Methyl formate 3-Methyl-3-methoxybutyl acetate Oleic acid Palm kernel acid oil Methyl salicylate Metolachlor Palm kernel acid oil, methyl ester Naphthalene sulfonic acid, sodium salt solution Palm stearin (40% or less) n-Pentyl propionate Nonyl acetate Poly(2-8)alkylene blycol monoalkyl(C1-C6) ether n-Octyl acetate acetate Octyl decyl adipate Polydimethylsiloxane Polyferric sulfate solution Oil. edible: Polymethylsiloxane Beechnut Castor Poly(20)oxyethylene sorbitan monooleate Cocoa butter Polysiloxane Coconut² Polyolefin amide alkeneamine borate (C28-Cod liver C250) Corn Polyolefin ester (C28-C250) Polyolefin phosphorosulfide, barium derivative Cottonseed Fish² (C28-C250) Groundnut Potassium oleate Hazelnut Propyl acetate Propylene carbonate Lard Lanolin Propylene glycol methyl ether acetate Nutmea butter Sodium acetate, glycol, water mixture (not containing sodium hydroxide)² Olive Palm² Sodium acetate solution Palm kernel Sodium benzoate solution Sodium dimethyl naphthalene sulfonate solution² Peanut Sodium long chain alkyl salicylate (C13+) Poppy Poppy seed Sodium naphthalene sulfonate solution Raisin seed Soyabean oil (epoxidized) Rapeseed Stearic acid Rice bran Tall oil Safflower Tallow² Tallow fatty acid² Salad Tributyl phosphate Sesame Tricresyl phosphate Soya bean Sunflower Tridecanoic acid Sunflower seed Tridecyl acetate Triethylene glycol di-(2-ethylbutyrate) Tucum Triethyl phosphate Vegetable Walnut Triethyl phosphite² Triisooctyl trimellitate² Oil, misc.: Triisopropylated phenyl phosphates Animal 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate Coconut oil, fatty acid methyl ester 2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate Cotton seed oil, fatty acid 2.2.4-Trimethyl-3-pentanol-1-isobutyrate Lanolin Palm kernel oil, fatty acid methyl ester Trimethyl phosphite² Palm oil, methyl ester Trisodium nitrilotriacetate Pilchard Trixylyl phosphate Perilla Trixylenyl phosphate Vegetable acid oils and distillates, n.o.s. Soapstock Soyabean (epoxidized) Vegetable oils, n.o.s. Tall Waxes: Carnauba Tall, fatty acid² Zinc alkaryl dithiophosphate (C7-C16)

Zinc alkyl dithiophosphate (C3-C14)

35. VINYL HALIDES

Vinyl chloride Vinylidene chloride

36. HALOGENATED HYDROCARBONS

Benzyl chloride Carbon tetrachloride

Chlorinated paraffins (C10 - C13) Chlorinated paraffins (C14 - C17)

Chlorobenzene

Chlorodifluoromethane

Chloroform Chlorotoluene Dichlorobenzene

Dichlorodifluoromethane

1,1-Dichloroethane 1,6-Dichlorohexane

2,2'-Dichloroisopropyl ether

Dichloromethane
Dichloropropane
Ethyl chloride
Ethylene dibromide
Ethylene dichloride²
Methyl bromide
Methyl chloride

Monochlorodifluoromethane

n-Propyl chloride Pentachloroethane Perchloroethylene

1,1,2,2-Tetrachloroethane 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane² 1,1,2-Trichloroethane

Trichloroethylene²

1,2,3-Trichloropropane

1,1,2-trichloro-1,2,2-trifluoroethane

37. NITRILES

Acetonitrile Adiponitrile

Lactonitrile solution

Propionitrile Tallow nitrile

38. CARBON DISULFIDE

Carbon disulfide

39. SULFOLANE

Sulfolane

40. GLYCOL ETHERS

Diethylene glycol²

Diethylene glycol butyl ether Diethylene glycol dibutyl ether Diethylene glycol diethyl ether Diethylene glycol ethyl ether Diethylene glycol methyl ether Diethylene glycol n-hexyl ether Diethylene glycol phenyl ether Diethylene glycol propyl ether

Dipropylene glycol

Dipropylene glycol butyl ether Dipropylene glycol methyl ether

Ethoxy triglycol

Ethylene glycol hexyl ether

Ethylene glycol methyl butyl ether Ethylene glycol monoalkyl ethers Ethylene glycol tert-butyl ether Ethylene glycol butyl ether Ethylene glycol dibutyl ether Ethylene glycol ethyl ether Ethylene glycol isopropyl ether Ethylene glycol methyl ether Ethylene glycol phenyl ether

Ethylene glycol phenyl ether, Diethylene glycol

phenyl ether mixture
Ethylene glycol propyl ether
Hexaethylene glycol

Hexaethylene glycol Methoxy triglycol

Nonyl phenol (ethoxylated)

Nonyl phenol poly(4-12)ethoxylates Polyalkylene glycol butyl ether

Polyalkylene glycols, Polyalkylene glycol

monoalkyl ethers mixtures

Polyethylene glycols

Polyethylene glycol dimethyl ether

Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether

Polyethylene glycol monoalkyl ether

Polypropylene glycols

Polypropylene glycol methyl ether

n-Propoxypropanol

Propylene glycol monoalkyl ether Propylene glycol ethyl ether Propylene glycol methyl ether Propylene glycol n-butyl ether Propylene glycol phenyl ether Propylene glycol propyl ether

Tetraethylene glycol
Triethylene glycol

Triethylene glycol butyl ether

Triethylene glycol butyl ether mixture
Triethylene glycol ether mixture
Triethylene glycol ethyl ether
Triethylene glycol ethyl ether

Triethylene glycol methyl ether

Tripropylene glycol

Tripropylene glycol methyl ether

41. ETHERS

Alkaryl polyether (C9-C20)

Butyl ether

2,2-Dichloroethyl ether

Diethyl ether

Diglycidyl ether of Bisphenol F

Diglycidyl ether of bisphenol A

Dimethyl furan

1,4-Dioxane

Diphenyl ether

Diphenyl ether, Diphenyl phenyl ether mixture

Ethyl ether

Long chain alkaryl polyether (C11-C20)

Methyl tert-butyl ether²

Propyl ether

Tetrahydrofuran

1,3,5-Trioxane

Polyether (molecular weight 2000+)

42. NITROCOMPOUNDS

o-Chloronitrobenzene

Dinitrotoluene

Nitrobenzene

Nitroethane

Nitropropane

Nitropropane, Nitroethane mixture

Nitrotoluene

43. MISCELLANEOUS WATER SOLUTIONS

Aluminum sulfate solution²

2-Amino-2-hydroxymethyl-1,3-propanediol

solution

Ammonium bisulfite solution²

Ammonium nitrate-urea solution (not containing

ammonia)

Ammonium polyphosphate solution

Ammonium sulfate solution

Ammonium thiosulfate solution

Sulfonated polyacrylate solutions²

Calcium bromide solution

Calcium chloride solution

Clay slurry

Corn syrup

Dextrose solution

2,4-Dichlorophenoxyacetic acid, Diethanolamine

salt solution

2,4-Dichlorophenoxyacetic acid,

Triisopropanolamine salt solution²

Diethanolamine salt of 2,4-

Dichlorophenoxyacetic acid solution

Diethylenetriamine pentaacetic acid,

pentasodium salt solution

Dodecvl diphenyl ether disulfonate solution

Drilling brine (containing Calcium, Potassium or

Sodium salts)

Drilling brine (containing Zinc salts)

Drilling mud (low toxicity) (if non-flammable or

non-combustible)

Ethylenediaminetetracetic acid, tetrasodium salt

solution

Ethylene, Vinyl acetate copolymer emulsion

Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution²

Fish solubles (water based fish meal extracts)

Fructose solution

Fumaric adduct of Rosin, water dispersion

Hexamethylenediamine adipate solution

N-(Hydroxyethyl)ethylenediaminetriacetic acid,

trisodium salt solution

Kaolin clay slurry

Latex, liquid synthetic

Lignin liquor

Liquid streptomyces solubles

N-Methylglucamine solution

N-Methylglucamine solution (70% or less)

Naphthenic acid, sodium salt solution

Potassium chloride solution

Potassium thiosulfate solution

Rosin soap (disproportionated) solution

Sewage sludge, treated

Sodium alkyl sulfonate solution

Sodium hydrogen sulfite solution

Sodium polyacrylate solution²

Sodium salt of Ferric

hydroxyethylethylenediamine triacetic acid

solution

Sodium silicate solution²

Sodium sulfide solution

Sodium sulfite solution

Sodium tartrates, Sodium succinates solution

Sulfonated polyacrylate solutions²

Tall oil soap (disproportionated) solution

Tetrasodium salt of EDTA solution

Triisopropanolamine salt of 2,4-

Dichlorophenoxyacetic acid solution

Urea, Ammonium nitrate solution (not containing Ammonia)

Urea, Ammonium phosphate solution

Urea solution

Vegetable protein solution (hydrolysed)

Water

FOOTNOTES TO TABLE

¹ Because of very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MTH), U.S. Coast Guard, 2100 Second Street, SW., Washington, DC 20593-0001. Telephone (202) 267-1577.

² See Table 7.3 - Exceptions to the Chart.

TABLE 7.3 EXCEPTIONS TO THE CHART

1. The binary combinations listed below have been tested as prescribed in Appendix III and found not to be dangerously reactive. These combinations are exceptions to the Compatibility Chart (Figure 1) and may be stowed in adjacent tanks.

Member of Reactive	Compatible with	Tetradecylamine	
Group	D: (1 1 (7)	mixture (7)	Destrict also be all (OO)
Acetone (18)	Diethylenetriamine (7)	Ethylenediamine (7)	Butyl alcohol (20)
Acetone cyanohydrin (0)	Acetic acid (4)		tert-Butyl alcohol (20)
Acrylonitrile (15)	Triethanolamine (8)		Butylene glycol (20)
1,3-Butylene glycol (20)	Morpholine (7)		Creosote (21)
1,4-Butylene glycol (20)	Ethylamine (7)		Diethylene glycol (40)
	Triethanolamine (8)		Ethyl alcohol (20)
Gamma-Butyrolactone(0)	N-Methyl-2-pyrrolidone (9)		Ethylene glycol (20)
Caustic potash, 50% or	Isobutyl alcohol (20)		Ethyl hexanol (20)
less (5)	Ethyl alcohol (20)		Glycerine (20)
	Ethylene glycol (20)		Isononyl alcohol (20)
	Isopropyl alcohol (20)		Isophorone (18)
	Methyl alcohol (20)		Methyl butyl ketone (18)
	iso-Octyl alcohol (20)		Methyl isobutyl ketone (18)
Caustic soda, 50% or less	Butyl alcohol (20)		Methyl ethyl ketone (18)
(5)	tert-Butyl alcohol, Methanol		Propyl alcohol (20)
	mixtures		Propylene glycol (20)
	Decyl alcohol (20)		
	Iso-Decyl alcohol	Oleum (0)	Hexane (31)
	Diacetone alcohol (20)		Dichloromethane (36)
	Diethylene glycol (40)		Perchloroethylene (36)
	Ethyl alcohol (40%,		
	whiskey) (20)	1,2-Propylene glycol (20)	Diethylenetriamine (7)
	Ethylene glycol (20)		Polyethylene polyamines
	Ethylene glycol, Diethylene		(7)
	glycol mixture (20)		Triethylenetetramine (7)
	Ethyl hexanol (Octyl	Sodium dichromate, 70%	Methyl alcohol (20)
	alcohol) (20)	(0)	
	Methyl alcohol (20)	Sodium hydrosulfide	Iso-Propyl alcohol (20)
	Nonyl alcohol (20)	solution (5)	
	iso-Nonyl alcohol (20)	Sulfuric acid (2)	Coconut oil (34)
	Propyl alcohol (20)		Coconut oil acid (34)
	Propylene glycol (20)		Palm oil (34)
	Sodium chlorate (0)		Tallow (34)
	iso-Tridecanol (20)	Sulfuric acid, 98% or less (2)	Choice white grease tallow (34)
Dodecyl and	Tall oil, fatty acid (34)		

2. The binary combinations listed below have been determined to be dangerously reactive, based on either data obtained in the literature or on laboratory testing which has been carried out in accordance with procedures prescribed in Appendix III. These combinations are exceptions to the Compatibility Chart (Figure 1) and may not be stowed in adjacent tanks.

Acetone cyanohydrin (0) is not compatible with Groups 1-12, 16, 17 and 22.

Acrolein (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Acrylic acid (4) is not compatible with Group 9, Aromatic Amines.

Acrylonitrile (15) is not compatible with Group 5 (Caustics)

Alkylbenzenesulfonic acid (0) is not compatible with Groups 1-3, 5-9, 15, 16, 18, 19, 30, 34, 37, and strong oxidizers.

Allyl alcohol (15) is not compatible with Group 12, Isocyanates.

Alkyl (C7-C9) nitrates (34) is not compatible with Group 1, Non-oxidizing Mineral Acids.

Aluminum sulfate solution (43) is not compatible with Groups 5-11.

Ammonium bisulfite solution (43) is not compatible with Groups 1, 3, 4, and 5.

Benzenesulfonyl chloride (0) is not compatible with Groups 5-7, and 43.

1,4-Butylene glycol (20) is not compatible with Groups 1-9.

gamma-Butyrolactone (0) is not compatible with Groups 1-9.

Caustic soda solution, 50% or less (5) is not compatible with 1,4-Butylene glycol (20).

Crotonaldehyde (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Cyclohexanone, Cyclohexanol mixture (18) is not compatible with Group 12, Isocyanates.

- 2,4-Dichlorophenoxyacetic acid, Triisopropanolamine salt solution (43) is not compatible with Group 3, Nitric acid.
- 2,4-Dichlorophenoxyacetic acid, Dimethylamine salt solution (0) is not compatible with Groups 1-5, 11, 12, and 16.

Dimethyl hydrogen phosphite (34) is not compatible with Groups 1 and 4.

Dimethyl naphthalene sulfonic acid, sodium salt solution (34) is not compatible with Group 12, Formaldehyde, and strong oxidizing agents.

Dodecylbenzenesulfonic acid (0) is not compatible with oxidizing agents and Groups 1, 2, 3, 5, 6, 7, 8, 9, 15, 16, 18, 19, 30, 34, and 37.

Ethylenediamine (7) is not compatible with Ethylene dichloride (36).

Ethylene dichloride (36) is not compatible with Ethylenediamine (7).

Ethylidene norbonene (30) is not compatible with Groups 1-3 and 5-8.

2-Ethyl-3-propylacrolein (19) is not compatible with Group 1, Non-Oxidizing Mineral Acids.

Ferric hydroxyethyylethylenediamine triacetic acid, Sodium salt solution (43) is not compatible with Group 3, Nitric acid.

Fish oil (34) is not compatible with Sulfuric acid (2).

Formaldehyde (over 50%) in Methyl alcohol (over 30%) (19) is not compatible with Group 12, Isocyanates.

Formic acid (4) is not compatible with Furfural alcohol (20).

Furfuryl alcohol (20) is not compatible with Group 1, Non-Oxidizing Mineral Acids and Formic acid (4).

2-Hydroxyethyl acrylate is not compatible with Groups 2, 3, 5-8 and 12.

Isophorone (18) is not compatible with Group 8, Alkanolamines.

Magnesium chloride solution (0) is not compatible with Groups 2, 3, 5, 6 and 12.

Mesityl oxide (18) is not compatible with Group 8, Alkanolamines.

Methacrylonitrile (15) is not compatible with Group 5 (Caustics).

Methyl tert-butyl ether (41) is not compatible with Group 1, Non-oxidizing Mineral Acids.

Naphtha, cracking fraction (33) is not compatible with strong acids, caustics or oxidizing agents.

o-Nitrophenol (0) is not compatible with Groups 2, 3, and 5-10.

Octyl nitrates (all isomers) see Alkyl (C7-C9) nitrates.

Oleum (0) is not compatible with Sulfuric acid (2) and 1,1,1-Trichloroethane (36).

Phthalate based polyester polyol (0) is not compatible with group 2, 3, 5, 7 and 12.

Pentene, Miscellaneous hydrocarbon mixtures (30) are not compatible with strong acids or oxidizing agents.

Polyglycerine, Sodium salts solution (20) is not compatible with Groups 1, 4, 11, 16, 17, 19, 21, and 22.

Sodium acetate, Glycol, Water mixture (1% or less Sodium hydroxide) (34) is not compatible with Group 12 (Isocyanates).

Sodium chlorate solution (50% or less) (0) is not compatible with Groups 1-3, 5, 7, 8, 10, 12, 13, 17, and 20.

Sodium dichromate solution (70% or less) (0) is not compatible with Groups 1-3, 5, 7, 8, 10, 12, 13, 17, and 20.

Sodium dimethyl naphthalene sulfonate solution (34) is not compatible with Group 12, Formaldehyde and strong oxidizing agents.

Sodium hydrogen sulfide, Sodium carbonate solution (0) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium hydrosulfide (5) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium hydrosulfide, Ammonium sulfide solution (5) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium polyacrylate solution (43) is not compatible with Group 3, Nitric Acid.

Sodium salt of Ferric hydroxyethylethylenediamine triacetic acid solution (43) is not compatible with Group 3, Nitric acid.

Sodium silicate solution (43) is not compatible with Group 3, Nitric acid.

Sodium sulfide, hydrosulfide solution (0) is not compatible with Groups 6 (Ammonia) and 7 (Aliphatic amines).

Sodium thiocyanate (56% or less) (0) is not compatible with Groups 1-4.

Sulfonated polyacrylate solution (43) is not compatible with Group 5 (Caustics).

Sulfuric acid (2) is not compatible with Fish oil (34), or Oleum (0).

Tallow fatty acid (34) is not compatible with Group 5, Caustics.

1,1,1-Trichloroethane (36) is not compatible with Oleum (0).

Trichlorethylene (36) is not compatible with Group 5, Caustics.

Triethyl phosphite (34) is not compatible with Groups 1 and 4.

Trimethyl phosphite (34) is not compatible with Groups 1 and 4.

1,3,5-Trioxane (41) is not compatible with Group 1 (Non-oxidizing mineral acids) and Group 4 (Organic acids).

8. INDEX OF SYNONYMS

SYNONYM

COMPOUND NAMES

300° oil Oils, miscellaneous: mineral seal

Aatrex herbicide Atrazine

Oils, miscellaneous: absorption Absorbent oil

Accelerator HX N-Ethylcyclohexylamine

Acetal Acetal Acetaldehyde diethylacetal Acetal

Acetaldehyde, chloro-Chloroacetaldehyde Acetaldehyde, trichloro Trichloroacetaldehyde =

Acetaldehyde Acetaldehyde p-Acetaldehyde Paraldehyde = Acetate C-7 Heptyl acetate NonvI acetate Acetate C-9 Bis (Acetate) dioxouranium Uranyl acetate

(Acetato-o) phenyl mercury Phenylmercuric acetate = Acetatophenylmercury Phenylmercuric acetate =

Acetic acid anhydride = Acetic anhydride

Acetic acid n-amyl ester Amyl acetate (all isomers) Acetic acid, 3-methoxybutyl ester 3-Methoxybutyl acetate Acetic acid, ammonium salt = Ammonium acetate Acetic acid, benzyl ester Benzyl acetate

Acetic acid, chromium salt = Chromic acetate Acetic acid, cupric salt Copper acetate Acetic acid, cyclohexyl ester Cyclohexyl acetate Acetic acid, dimethylamide Dimethylacetamide

Acetic acid, dimethylamide N,N-Dimethyl acetamide solution (40% or =

less)

Acetic acid, ethyl ester Ethyl acetate

Acetic acid, fluoro-, sodium salt Sodium fluoroacetate

Acetic acid, heptyl ester Heptyl acetate Acetic acid, hexyl ester Hexyl acetate Acetic acid, isobutyl ester Isobutyl acetate Acetic acid, isopropyl ester Isopropyl acetate = Acetic acid, methyl ester Methyl acetate = Acetic acid, n-butyl ester n-Butyl acetate Acetic acid, n-nonyl ester Nonyl acetate

Acetic acid, n-propyl ether n-Propyl acetate Acetic acid. nickel (II) salt = Nickel acetate Acetic acid, phenylmethyl ester = Benzyl acetate Acetic acid, sec-butyl ester sec-Butyl acetate Acetic acid, tert-butyl ester tert-Butyl acetate Acetic acid, thallium (I) salt Thallium acetate

Acetic acid, thallous salt Thallium acetate = Acetic acid, zinc salt = Zinc acetate Acetic acid = Acetic acid

Acetic aldehyde Acetaldehyde Acetic anhydride Acetic anhydride Acetic ester Ethyl acetate = Ethyl acetate Acetic ether

Acetoacetic acid, ethyl ester = Ethyl acetoacetate Acetoacetic acid, methyl ester Methyl acetoacetate

Ethyl acetoacetate Acetoacetic ester

SYNONYM

COMPOUND NAMES

Acetocyanohydrin = Lactonitrile solution (80% or less)

Acetone cyanohydrin = Acetone cyanohydrin

Acetone Acetone Acetonitrile Acetonitrile Acetonyl bromide Bromoacetone Acetophenone Acetophenone alpha-Acetoxytoluene Benzyl acetate = Acetyl bromide Acetyl bromide Acetyl chloride Acetyl chloride = Acetyl hydroperoxide Peracetic acid = Acetyl oxide Acetic anhydride

Acetyl peroxide solution = Acetyl peroxide solution

Acetylacetone = Acetylacetone
Acetylbenzene = Acetophenone
Acetylene dichloride = 1,2-Dichloroethylene
Acetylene tetrachloride = Tetrachloroethane

Acetylene = Acetylene
Acetylenogen = Calcium carbide
Acetylmethyl bromide = Bromoacetone

Acid ammonium carbonate = Ammonium bicarbonate Acid ammonium fluoride = Ammonium bifluoride

Acraldehyde = Acrolein
Acridine = Acridine
Acrolein = Acrolein
Acrylaldehyde = Acrolein

Acrylamide solution Acrylamide solution Acrylic acid amide (50%) Acrylamide solution = Acrylic acid, 2-ethylhexylester 2-Ethylhexyl acrylate Acrylic acid, decyl ester n-Decyl acrylate = Ethyl acrylate Acrylic acid, ethyl ester = Acrylic acid, isobutyl ester iso-butyl acrylate Acrylic acid, methyl ester = Methyl acrylate Acrylic acid, n-butyl ester n-Butyl acrylate

Acrylic acid, n-butyl ester = n-Butyl acryl Acrylic acid = Acrylic acid Acrylic aldehyde = Acrolein

Acrylic amide 50% = Acrylamide solution
Acrylonitrile = Acrylonitrile
Activated charcoal = Charcoal
Adacene-12 = 1-Dodecene

Adipic acid, bis (2-ethylhexyl) ester = Di-(2-ethylhexyl) adipate

Adipic acid, bis (2-ethylhexyl) ester = Dioctyl adipate
Adipic acid, dimethyl ester = Dimethyl adipate
Adipic acid = Adipic acid

Adipic acid = Adipic acid
Adipinic acid = Adipic acid
Adipol 2EH = Dioctyl adipate
Adiponitrile = Adiponitrile
Adronal = Cyclohexanol

Aerosol surfactant = Dioctyl sodium sulfosuccinate

Aerothene = Trichloroethane
AIP = Aluminum phosphide
Alaninol = 2-Propanolamine
Albone = Hydrogen peroxide

Albus = Mercuric ammonium chloride

Alcohol C-10 = n-Decyl alcohol

COMPOUND NAMES

Alcohol C-11 (undecylic) = Undecanol
Alcohol C-8 = Octanol
Alcohol = Ethyl alcohol
Aldehyde-collidine = Methylethylpyridine
Aldehydine = Methylethylpyridine
Aldifen = 2,4-Dinitrophenol

Aldifen = 2,4-Dinitr Aldrin = Aldrin Alfa-tox = Diazinon

Alimet = 2-Hydroxy-4-(methylthio)-butanoic acid

Alkaway liquid alkaline deruster = Boiler compound, liquid Alkron = Methyl parathion

Alkyl $(C_{11} - C_{17})$ benzenesulfonic acid = Alkyl $(C_{11} - C_{17})$ benzenesulfonic acid = Alkyl $(C_{11} - C_{17})$ benzenesulfonic acid = Sodium alkylbenzenesulfonates = Methyl acetylene, propadiene mixture

Allomaleic acid Fumaric acid Allyl alcohol Allyl alcohol Allyl aldehyde Acrolein Allyl bromide Allyl bromide Allyl chloride Allyl chloride Allyl chlorocarbonate Allyl chloroformate Allyl chloroformate Allyl chloroformate Allyl trichloride 1,2,3-Trichloropropane

Allylethylene = 1,4-Pentadiene Allylsilicone trichloride = Allyltrichlorosilane Allyltrichlorosilane = Allyltrichlorosilane

Allyltrichlorosilane = Allyltrichlorosilane alpha,alpha,alpha-trifluoro-2,6-Dinitro- = Trifluralin

n,n-dipropyl-p-toluidine

Alrowet D65 = Dioctyl sodium sulfosuccinate

Alum = Aluminum sulfate
Aluminum chloride solution = Aluminum chloride solution

Aluminum chloride = Aluminum chloride
Aluminum ethyl dichloride = Ethylaluminum dichloride
Aluminum fluoride = Aluminum fluoride

Aluminum monophosphide = Aluminum phosphide
Aluminum nitrate nonahydrate = Aluminum nitrate
Aluminum nitrate = Aluminum nitrate

Aluminum phosphide = Aluminum phosphide
Aluminum sulfate solution = Aluminum sulfate solution
Aluminum sulfate = Aluminum sulfate
Aluminum triethyl = Triethylaluminum

Aluminum triisobutyl = Triisobutylaluminum
Amchlor = Ammonium chloride
Amchloride = Ammonium chloride
American palm kernel oil = Oils, edible: tucum

3-Amino-1-methylbenzene m-Toluidine 2-Amino-1-methylbenzene o-Toluidine = 4-Amino-1-methylbenzene p-Toluidine 2-Amino-1-propanol 2-Propanolamine 3-Amino-1-propanol n-Propanolamine 1-Amino-2-ethylhexane 2-Ethylhexylamine 1-Amino-2-fluorobenzene 2-Fluoroaniline =

2-Amino-2-methyl-1-propanol (90% or less) = 2-Amino-2-methyl-1-propanol (90% or less)

COMPOUND NAMES

1-Amino-2-methylpropane 2-Amino-2-methylpropane 1-Amino-2-nitrobenzene 1-Amino-2-propanol

1-Amino-4-chlorobenzene 1-Amino-4-fluorobenzene 1-Amino-4-nitrobenzene 2-Amino-5-chlorotoluene

Aminobenzene 1-Aminobutane Aminocaproic lactam Aminocyclohexane Aminodimethylbenzene

2-Aminodimethylethanol

Aminoethane 2-Aminoethanol

beta-Aminoethyl alcohol N-Aminoethyl piperazine Bis-(2-Aminoethyl) amine

2-[(2-Aminoethyl) amino] ethanol N-(2-Aminoethyl) ethanolamine N-(2-Aminoethyl) piperazine 1-(2-Aminoethyl) piperazine

N,N'-bis-(2-Aminoethyl)ethylenediamine

Aminoethylethanolamine

Aminoform

2-Aminoisobutane beta-Aminoisobutanol

Aminomercuric chloride

Aminomethane Aminomethane 3-Aminomethyl-3.5.5-

trimethylcyclohexylamine

1-Aminonaphthalene 2-Aminopropane 1-Aminopropane 4-Aminopyridine p-Aminopyridine alpha-Aminotoluene 3-Aminotoluene 2-Aminotoluene 4-Aminotoluene

Ammate Ammoneric Ammonia soap Ammonia solution

Ammonia water

Ammonia, anhydrous Ammoniated mercury Ammonioformaldehyde Isobutvlamine tert-Butylamine 2-Nitroaniline

Monoisopropanolamine

p-chloroaniline 4-Fluoroaniline 4-Nitroaniline 4-Chloro-o-toluidine

Aniline = n-Butylamine = Caprolactam Cvclohexvlamine 2,6-Dimethylaniline =

2-Amino-2-methyl-1-propanol (90% or =

less)

Ethylamine

=

Monoethanolamine Monoethanolamine N-Aminoethyl piperazine Diethylenetriamine Aminoethylethanolamine = Aminoethylethanolamine N-Aminoethyl piperazine

N-Aminoethyl piperazine Triethylenetetramine = Aminoethylethanolamine = Hexamethylenetetramine =

tert-Butylamine

2-Amino-2-methyl-1-propanol (90% or

less)

Mercuric ammonium chloride

= Methylamine

Methylamine solution Isophorone diamine

1-Naphthylamine = Isopropylamine n-Propylamine = 4-Aminopyridine 4-Aminopyridine Benzylamine m-Toluidine o-Toluidine p-Toluidine

Ammonium sulfamate Ammonium chloride Ammonium oleate

Ammonium hydroxide (<28% aqueous

ammonia)

Ammonium hydroxide (<28% aqueous

ammonia)

Ammonia, anhydrous

Mercuric ammonium chloride Hexamethylenetetramine

COMPOUND NAMES

Ammonium acetate Ammonium acid fluoride Ammonium amidosulfonate Ammonium amidosulphate Ammonium aminoformate Ammonium benzoate Ammonium bicarbonate Ammonium bichromate Ammonium bifluoride Ammonium bisulfite Ammonium borofluoride Ammonium bromide Ammonium carbamate Ammonium carbazoate Ammonium carbonate Ammonium chloride Ammonium chromate Ammonium citrate, dibasic Ammonium citrate, dibasic Ammonium citrate

Ammonium cupric sulfate

Ammonium decaborate octahydrate

Ammonium dichromate

Ammonium disulfatonickelate (II)

Ammonium ferric citrate

Ammonium ferric oxalate trihydrate

Ammonium ferrous sulfate Ammonium fluoborate Ammonium fluoride Ammonium fluorosilicate Ammonium formate Ammonium gluconate

Ammonium hydrogen carbonate Ammonium hydrogen difluoride Ammonium hydrogen fluoride Ammonium hydrogen sulfide solution

Ammonium hydrogen sulfite Ammonium hydrosulfite

Ammonium hydroxide (<28% aqueous ammonia)

Ammonium hypo solution

Ammonium hypophosphite

Ammonium hyposulfite solution

Ammonium hyposulfite Ammonium iodide Ammonium lactate svrup Ammonium lactate Ammonium lauryl sulfate Ammonium molybdate Ammonium monosulfite Ammonium muriate Ammonium nickel sulfate

Ammonium acetate Ammonium bifluoride Ammonium sulfamate Ammonium sulfamate Ammonium carbamate Ammonium benzoate Ammonium bicarbonate Ammonium dichromate Ammonium bifluoride Ammonium bisulfite Ammonium fluoborate Ammonium bromide Ammonium carbamate Ammonium picrate, wet = Ammonium carbonate Ammonium chloride Ammonium chromate Ammonium citrate, dibasic Ammonium citrate, dibasic Ammonium citrate, dibasic

Copper sulfate, ammoniated Ammonium pentaborate Ammonium dichromate Nickel ammonium sulfate Ferric ammonium citrate Ferric ammonium oxalate Ferrous ammonium sulfate Ammonium fluoborate Ammonium fluoride Ammonium silicofluoride Ammonium formate Ammonium gluconate

Ammonium bicarbonate

Ammonium bifluoride Ammonium bifluoride Ammonium sulfide Ammonium bisulfite Ammonium bisulfite

Ammonium hydroxide (<28% aqueous ammonia)

Ammonium thiosulfate solution (60% or less)

Ammonium hypophosphite

Ammonium thiosulfate solution (60% or less)

Ammonium thiosulfate Ammonium iodide Ammonium lactate Ammonium lactate Ammonium lauryl sulfate Ammonium molybdate Ammonium bisulfite Ammonium chloride = Nickel ammonium sulfate

COMPOUND NAMES

Ammonium nitrate-phosphate mixture Ammonium nitrate-sulfate mixture Ammonium nitrate-urea solution

Ammonium nitrate Ammonium oleate

Ammonium oxalate hydrate

Ammonium oxalate

Ammonium pentaborate tetrahydrate

Ammonium pentaborate Ammonium pentachlorozincate Ammonium perchlorate Ammonium peroxydisulfate

Ammonium persulfate

Ammonium phosphate, dibasic

Ammonium phosphate Ammonium picrate (yellow) Ammonium picrate, wet Ammonium picronitrate Ammonium rhodanate Ammonium rhodanide Ammonium silicofluoride Ammonium stearate dispersion

Ammonium stearate Ammonium sulfamate Ammonium sulfate

Ammonium sulfhydrate solution Ammonium sulfide solution

Ammonium sulfide Ammonium sulfite Ammonium sulfocyanate Ammonium sulfocyanide Ammonium tartrate Ammonium tetrafluoborate Ammonium thiocvanate

Ammonium thiosulfate solution (60% or

less)

Ammonium thiosulfate Ammonium trioxalatoferrate(III) trihydrate

Ammonium zinc chloride Amorphous phosphorus

AMP-95

AMP

AMS

Amyl acetate (all isomers) Amyl acetate, mixed isomers

sec-Amvl acetate tert-Amyl acetate 1-Amyl alcohol n-Amyl alcohol Amyl aldehyde Amyl aldehyde n-Amyl chloride

Ammonium nitrate-phosphate mixture Ammonium nitrate-sulfate mixture Ammonium nitrate-urea solution

Ammonium nitrate Ammonium oleate Ammonium oxalate Ammonium oxalate Ammonium pentaborate Ammonium pentaborate

Zinc ammonium chloride Ammonium perchlorate Ammonium persulfate Ammonium persulfate Ammonium phosphate Ammonium phosphate

Ammonium picrate, wet Ammonium picrate, wet Ammonium picrate, wet Ammonium thiocyanate Ammonium thiocyanate Ammonium silicofluoride Ammonium stearate

Ammonium stearate Ammonium sulfamate Ammonium sulfate Ammonium sulfide Ammonium sulfide Ammonium sulfide Ammonium sulfite

Ammonium thiocyanate Ammonium thiocyanate = Ammonium tartrate Ammonium fluoborate

Ammonium thiocvanate

Ammonium thiosulfate solution (60% or less)

Ammonium thiosulfate Ferric ammonium oxalate Zinc ammonium chloride

Phosphorus, red

2-Amino-2-methyl-1-propanol (90% or =

2-Amino-2-methyl-1-propanol (90% or less)

Ammonium sulfamate Amyl acetate (all isomers) Amyl acetate (all isomers) =

sec-Amvl acetate tert-Amyl acetate n-Amyl alcohol n-Amyl alcohol n-Valeraldehyde = Valeraldehyde = n-Amyl chloride

COMPOUND NAMES

Amvl chloride Amyl ethyl ketone Amvl hydrosulfide n-Amyl mercaptan n-Amyl methyl ketone

n-Amyl nitrate iso-Amyl nitrite = Amyl nitrite = Amyl phthalate n-Amyl propionate Amyl sulfhydrate Amyl thioalcohol n-Amylcarbinol Amylcarbinol

alpha-n-Amylene n-Amyltrichlorosilane n-Amyltrichlorosilane Anacardic acid

Anesthesia ether Anesthetic ether **Anglislite**

"Anhydride" of ammonium carbonate

Anhydrone

Anhydrous aluminum chloride

Anhydrous chloral

Aniline oil

Aniline, 2,6-diethyl Aniline, 2,6-dimethyl

Aniline

Anilinobenzene Anilinomethane Animal carbon o-Anisic acid Anisoyl chloride p-AnisovI chloride

Anone Ansar

Anol

Ansul ether 12' Ansul ether 121

Anthon Anthracene Anthracin Antimonous bromide

Antimony (III) chloride Antimony (V) chloride Antimony pentachloride Antimony pentafluoride Antimony perchloride Antimony potassium tartrate

Antimony tribromide Antimony trichloride Antimony trifluoride Antimony trioxide Aouara oil

n-Amvl chloride Ethyl amyl ketone n-Amvl mercaptan n-Amyl mercaptan n-Amyl methyl ketone n-Amyl nitrate iso-Amyl nitrite

Amyl phthalate = n-Pentyl propionate = n-Amyl mercaptan n-Amvl mercaptan

iso-Amyl nitrite

1-Hexanol = 1-Hexanol 1-Pentene

Oil, misc: cashew nut shell

Ethyl ether Ethyl ether Lead sulfate

Ammonium carbamate Magnesium perchlorate Aluminum chloride Trichloroacetaldehyde

Aniline =

2,6-Diethylaniline = 2,6-Dimethylaniline =

Aniline

Diphenylamine N-Methylaniline = Charcoal

Methyl salicylate = AnisovI chloride AnisovI chloride Cyclohexanol Cyclohexanone Cacodylic acid

Ethylene glycol dimethyl ether Ethylene glycol dimethyl ether

Trichlorfon Anthracene = Anthracene

Antimony tribromide = Antimony trichloride Antimony pentachloride Antimony pentachloride = Antimony pentafluoride = Antimony pentachloride Antimony potassium tartrate =

Antimony tribromide Antimony trichloride Antimony trifluoride = Antimony trioxide = Oils, edible: tucum

COMPOUND NAMES

APO = Tris(Aziridinyl)phosphine oxide

Aqua ammonia = Ammonium hydroxide (<28% aqueous

ammonia)

Aquacide = Diquat

Aqueous ammonia = Ammonium hydroxide (<28% aqueous

ammonia)

Arsenic trisulfide

Arcosolv = Dipropylene glycol methyl ether Arcton 6 = Dichlorodifluoromethane

Arcton 9 = Trichlorofluoromethane

Argentous fluoride = Silver fluoride Argentous oxide = Silver oxide Arizole = Oil, misc: pine

Arochlor = Polychlorinated biphenyl Arosol = Ethylene glycol phenyl ether

Arsenic acid anhydride = Sodium cacodylate
Arsenic acid anhydride = Arsenic pentaoxide
Arsenic chloride = Arsenic trichloride

Arsenic chloride = Arsenic trichloride
Arsenic disulfide = Arsenic disulfide
Arsenic oxide = Arsenic pentaoxide
Arsenic pentaoxide = Arsenic pentaoxide

Arsenic pentoxide = Arsenic acid
Arsenic pentoxide = Arsenic pentaoxide
Arsenic sesquioxide = Arsenic trioxide
Arsenic trichloride = Arsenic trichloride
Arsenic trioxide = Arsenic trioxide
Arsenic trisulfide = Arsenic trisulfide

Arsenic yellow = Arsenic
Arsenic, metallic = Arsenic
Arsenic, solid = Arsenic
Arsenic = Arsenic

Arsenious acid, potassium salt = Potassium arsenite
Arsenious chloride = Arsenic trichloride
Arsenous acid anhydride = Arsenic trioxide
Arsenous acid, calcium salt = Calcium arsenite

Arsenous acid = Arsenic trioxide
Arsenous chloride = Arsenic trichloride
Arsenous oxide = Arsenic trioxide
Arsicodile = Sodium cacodylate
Arsycodile = Sodium cacodylate

Arthodibrom = Naled

Artic = Methyl chloride Artificial cinnabar = Mercuric sulfide

Asphalt blending stocks: roofers flux = Asphalt blending stocks: roofers flux Asphalt blending stocks: straight run = Asphalt blending stocks: straight run

residue residue
Asphalt cements = Asphalt
Asphalt = Asphalt
Asphaltic bitumen = Asphalt

Asphaltum oil = Asphalt blending stocks: roofers flux Asphaltum = Asphalt blending stocks: roofers flux

ATE = Triethylaluminum

Atrazine = Atrazine Australene = Pinene

COMPOUND NAMES

Avitrol 4-Aminopyridine Avlothane Hexachloroethane Dimethyl phthalate Avolin 10-Azaanthracene Acridine

Hexamethylenimine Azacycloheptane

1-Azanaphthalene Quinoline Azinphos methyl Azinphos methyl

Ethyleneimine Azirane = Ethyleneimine Aziridine =

Tris(Aziridinyl)phosphine oxide Tris(1-Aziridinyl) phosphine oxide = Tris(Aziridinyl)phosphine oxide Tris(Aziridinyl)phosphine oxide =

Azoic diazo component 37 4-Nitroaniline Azoic diazo component 6 2-Nitroaniline Banana oil = Isoamylacetate

Banana oil = sec-Amyl acetate Banvel D Dicamba

Barium binoxide Barium peroxide

Barium carbonate Barium carbonate Barium chlorate monohydrate Barium chlorate

Barium chlorate Barium chlorate Barium cyanide solid Barium cyanide = Barium cyanide Barium cyanide Barium dioxide Barium peroxide Barium nitrate Barium nitrate =

Barium perchlorate trihydrate Barium perchlorate =

Barium perchlorate Barium perchlorate = Barium permanganate Barium permanganate = Barium peroxide Barium peroxide Barium superoxide Barium peroxide = Basic bismuth choride Bismuth oxychloride = Basic copper acetate Copper subacetate

Basic zirconium chloride Zirconium oxychloride = Battery acid Sulfuric acid

Bay 37344 Mercaptodimethur Bayer 13/59 Trichlorfon

Bearing oil Oils, miscellaneous: spindle

Beet sugar Sucrose Benzal chloride Benzal chloride = Benzaldehyde Benzaldehyde

1-Benzazine Quinoline Benzenamine Aniline =

Benzene-1,3-dicarboxylic acid Isophthalic acid = Benzene chloride Chlorobenzene =

1,2-Benzene dicarboxylic acid, di-(2-Diisobutyl phthalate methylpropyl)ester

Benzene fluoride Fluorobenzene gamma-Benzene hexachloride gamma-Benzene hexachloride Benzene phosphorus dichloride Benzene phosphorus dichloride Benzene phosphorus thiodichloride Benzene phosphorus thiodichloride

Benzene sulfochloride Benzenesulfonyl chloride Benzenesulfonyl chloride Benzene sulfonechloride

Benzene, 1-chloro-2-methyl o-Chlorotoluene Benzene, 1,2,3-trichloro-1,2,3-Trichlorobenzene = Benzene, 1,2,4-trichloro-1,2,4-Trichlorobenzene

COMPOUND NAMES

Benzene, diisopropyl = Diisopropylbenzene (all isomers)

Benzene, hexachloro- = Hexachlorobenzene Benzene, propyl = n-Propylbenzene

Benzene = Benzene

Benzeneamine, 2,6-diethyl- (9ci) = 2,6-Diethylaniline
Benzenecarbinol = Benzyl alcohol
Benzenecarbonyl chloride = Benzoyl chloride
Benzenecarboxylic acid = Benzoic acid
1,2-Benzenedicarboxylic acid anhydride = Phthalic anhydride
1,2-Benzenedicarboxylic acid, di-isononyl = Diisononyl phthalate

ester

1,2-Benzenedicarboxylic acid, di-undecyl = Diundecyl phthalate

ester

1,2-Benzenedicarboxylic acid, diethyl = Diethyl phthalate

ester

1,2-Benzenedicarboxylic acid, dipentyl = Amyl phthalate

ester

1,2-Benzenediol= Catechol1,4-Benzenediol= Hydroquinone1,3-Benzenediol= Resorcinol

Benzenesulfonic (acid) chloride = Benzenesulfonyl chloride Benzenesulfonyl chloride = Benzenesulfonyl chloride Benzenesulfonyl chloride = Benzenesulfonyl chloride

Benzenethiol = Benzenethiol

Benzenethiophosphonyl chloride = Benzene phosphorus thiodichloride

1,2,3-Benzenetriol = Pyrogallic acid Benzidine = Benzidine

Benzinoform = Carbon tetrachloride

Benzo (b) pyridine = Quinoline Benzo (b) quinoline = Acridine

Benzoflex 9-88 SG = Dipropylene glycol dibenzoate
Benzoflex 9-88 = Dipropylene glycol dibenzoate
Benzoflex 9-98 = Dipropylene glycol dibenzoate

Benzole = Benzene
Benzonitrile = Benzonitrile
Benzophenone = Benzophenone
p-Benzoquinone = p-Benzoquinone
1,4-Benzoquinone = p-Benzoquinone

2-Benzothiazolethiol, sodium salt = Sodium 2-mercaptobenzothiazol solution 2-(3h)-Benzothiazolethione, sodium salt = Sodium 2-mercaptobenzothiazol solution

Benzoyl benzene = Benzophenone
Benzoyl chloride = Benzoyl chloride
Benzoyl peroxide = Dibenzoyl peroxide
Benzoyl superoxide = Dibenzoyl peroxide
Benzyl acetate = Benzyl acetate
Benzyl alcohol = Benzyl alcohol

COMPOUND NAMES

Benzvl bromide Benzyl chloride Benzyl chlorocarbonate Benzyl chloroformate Benzyl dichloride Benzyl dimethylamine Benzyl ethanoate

Benzyl ether

Benzyl n-butyl phthalate

Benzylamine

Benzylcarbonyl chloride

Benzyldimethyloctadecylammonium chloride

Benzyldimethylstearyl ammonium chloride

Benzylene chloride Benzylidene chloride

Benzyltrimethylammonium chloride

Beryllia

Beryllium chloride Beryllium fluoride

Beryllium nitrate trihydrate

Beryllium nitrate Beryllium oxide

Beryllium sulfate tetrahydrate

Beryllium sulfate

Beryllium

beta-trichloroethane Betraprone

Betula or gaultheria oil

BHC

p,p'-Bianiline Bibenzene Bichrome

Bieberite Biethylene Biformvl

Bioflex 91

(1,1'-Biphenyl)-4,4'-diamine

Biphenyl 1,1'-Biphenyl

Bis(2-ethylhexyl) adipate Bis(glycinato) copper

Bis(methylcyclopentadiene)

Bismuth chloride oxide

Bismuth oxychloride Bismuth subchloride Bismuthyl chloride

Bisphenol A - epichlorohydrin

condensate

Bisphenol A diglycidyl ether

Bisphenol A Bitumen Bivinyl

Benzvl bromide Benzyl chloride

Benzyl chloroformate = Benzyl chloroformate Benzal chloride

Benzyl dimethylamine

Benzyl acetate Dibenzyl ether =

Butyl benzyl phthalate =

Benzylamine =

Benzyl chloroformate

Benzyldimethyloctadecylammonium

chloride

Benzyldimethyloctadecylammonium

chloride

Benzal chloride Benzal chloride

Benzyltrimethylammonium chloride

Beryllium oxide Beryllium chloride Beryllium fluoride = Beryllium nitrate Beryllium nitrate Beryllium oxide = Beryllium sulfate =

Beryllium =

=

1,1,2-Trichloroethane beta-Propiolactone = Methyl salicylate =

Beryllium sulfate

gamma-Benzene hexachloride

Benzidine = Diphenvl

Potassium dichromate

Cobalt sulfate Butadiene Glvoxal

Dinonyl phthalate =

Benzidine Diphenyl Diphenyl =

Di-(2-ethylhexyl) adipate =

Copper glycinate =

Methylcyclopentadiene dimer

Bismuth oxychloride = Bismuth oxychloride Bismuth oxychloride = Bismuth oxychloride =

Bisphenol A diglycidyl ether

Bisphenol A diglycidyl ether

Bisphenol A = Asphalt = Butadiene

COMPOUND NAMES

Black leaf 40 (40% water solution) = Nicotine sulfate

Bladan = Tetraethyl pyrophosphate
Bleach = Sodium hypochlorite solution

Blue oil = Aniline

Blue verdigris = Copper subacetate
Blue vitriol = Copper sulfate
Boiler compound, liquid = Boiler compound, liquid

Boiler compound, liquid = Boiler compound, liquid Boletic acid = Fumaric acid Boracic acid = Boric acid

Boracic acid = Boric acid
Borax, anhydrous = Sodium borate
Boric acid = Boric acid

Borohydride = Sodium borohydride Borohydride = Sodium hydroxide solution

Boron chloride = Boron trichloride Boron tribromide = Boron tribromide Boron trichloride = Boron trichloride

Bottled gas = Liquefied petroleum gas

Box toe gum = Collodion

BP = Dibenzoyl peroxide BPO = Dibenzoyl peroxide

Brimstone = Sulfur

Brocide = Ethylene dichloride
Bromallylene = Allyl bromide
Bromelite = Beryllium oxide

Bromex = Naled

Bromine pentafluoride = Bromine pentafluoride Bromine trifluoride = Bromine trifluoride

Bromine = Bromine

1-Bromo-2-propanone = Bromoacetone

Bromoacetone = Bromoacetone

Bromoacetyl bromide = Bromoacetyl bromide

Bromobenzene = Bromobenzene
Bromobenzol = Bromobenzene
1-Bromobutane = 1-Bromobutane
2-Bromobutane = 2-Bromobutane
Bromoethanoyl bromide = Bromoacetyl bromide

Bromoform = Bromoform

Bromofume = Ethylene dibromide
Bromomethane = Methyl bromide
Bromomethyl methyl ketone = Bromoacetone

2-Bromopentane 2-Bromopentane = 1-Bromopropane 1-Bromopropane 3-Bromopropene Allyl bromide 3-Bromopropylene = Allyl bromide Bromotoluene, alpha Benzyl bromide = omega-Bromotoluene Benzyl bromide alpha-Bromotoluene Benzyl bromide =

(-)Brucine dihydrate = Brucine Brucine = Brucine

BTMAC = Benzyltrimethylammonium chloride

Bunker C oil = Oils, fuel: no. 6 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- = Hexachlorobutadiene

COMPOUND NAMES

Butadiene 1,3-Butadiene Butaldehyde Butanal

Butane

1-Butanamine, n-butyl

n-Butane
1,4-Butanedicarboxylic acid
1,4-Butanediol
Butanediol
Butanenitrile
1-Butanethiol
Butanic acid

Butanoic acid, 3-oxo-methyl ester (9ci)

Butanoic acid, butyl ester Butanoic acid, methyl ester

Butanoic acid

1-Butanol, 3-methoxyacetate

Butanol 1-Butanol 2-Butanol

2-Butanone peroxide 2-Butanone, peroxide

2-Butanone

Butanox M50, M105, LPT

Butanoyl chloride 3-Buten-2-one 1-Buten-3-ol, 3-methyl

trans-2-Butenal cis-2-Butene-1, 4-diol 2-Butene-1, 4-diol 1-Butene oxide Butene resins 1-Butene

trans-Butenedioic acid cis-Butenedioic acid cis-Butenedioic anhydride

1,4-Butenediol

1-Butoxy-2,3-epoxypropane

1-Butoxy butane

Butoxydiethylene glycol

Butoxydiglycol

2-Butoxyethanol acetate

2-Butoxyethanol

2-(2-Butoxyethoxy) ethanol acetate

2-(2-Butoxyethoxy) ethanol 2-Butoxyethyl acetate Bis(2-Butoxyethyl) ether

Butoxyl

Butoxypropyl trichlorophenoxyacetate Butryic acid, 2-hydroxy-4-methylthio-

Butter of antimony Butter of arsenic ButadieneButadiene

n-Butyraldehyden-ButyraldehydeDi-n-butylamine

Butane
Butane
Adipic acid
1,4-Butanediol
Butylene glycol
Butyronitrile
n-Butyl mercaptan
n-Butyric acid

Methyl acetoacetateButyl butyrateMethyl butyraten-Butyric acid

3-Methoxybutyl acetate

n-Butyl alcohol
n-Butyl alcohol
sec-Butyl alcohol
2-Butanone peroxide
2-Butanone peroxide
Methyl ethyl ketone
2-Butanone peroxide
Methyl chloride
Methyl vinyl ketone
Methyl vinyl ketone
Methyl butenol

Crotonaldehyde
1,4-Butenediol
1,4-Butylene oxide
Polybutene
Butylene

Fumaric acid

Maleic acid
Maleic anhydride
1,4-Butenediol
n-Butyl glycidyl ether

Di-n-butyl etherDiethylene glycol monobutyl etherDiethylene glycol monobutyl ether

= Ethylene glycol monobutyl ether acetate

Ethylene glycol monobutyl etherDiethylene glycol monobutyl ether

acetate

Diethylene glycol monobutyl etherEthylene glycol monobutyl ether acetate

Diethylene glycol dibutyl ether3-Methoxybutyl acetate

= 2,4,5-T esters

= 2-Hydroxy-4-(methylthio)-butanoic acid

Antimony trichlorideArsenic trichloride

COMPOUND NAMES

Buttercup vellow

Butyl "carbitol" acetate

Zinc chromate

Diethylene glycol monobutyl ether

acetate

Butvl "carbitol"

Butyl "cellosolve" acetate

Butyl 2-methacrylate Butyl 2-methyl-2-propenoate

n-Butyl 2-propenoate

Butyl 2,4-dichlorophenoxyacetate Butyl 2,4,5- trichlorophenoxyacetate

Butyl a-hydroxypropionate

n-Butvl acetate Butyl acetate sec-Butyl acetate tert-Butvl acetate iso-Butyl acrylate n-Butyl acrylate Butyl acrylate Butyl alcohol n-Butyl alcohol sec-Butyl alcohol

n-Butyl alpha-methylacrylate

Butyl benzyl phthalate n-Butvl bromide Butyl bromide sec-Butyl bromide Butyl butanoate Butyl butyrate

tert-Butyl alcohol

Butvl aldehvde

Butyl cellosolve

n-Butyl chloride Butvl chloride

n-Butvl chlorocarbonate n-Butyl chloroformate

Butyl diglyme

Butvl ethanoate Butyl ether n-Butyl ether Butyl ethyl ketone n-Butyl formal n-Butyl formate

n-Butyl glycidyl ether tert-Butyl hydroperoxide

Butvl lactate n-Butyl mercaptan n-Butyl methacrylate Butvl methacrylate tert-Butyl methyl ether n-Butyl methyl ketone Butyl phthalate

Butyl titanate monomer Butyl titanate

n-Butyl propionate

Diethylene glycol monobutyl ether =

Ethylene glycol monobutyl ether acetate

n-Butyl methacrylate n-Butyl methacrylate = n-Butyl acrylate =

2.4-D esters =

2,4,5-T esters = **Butyl lactate**

n-Butvl acetate n-Butyl acetate = sec-Butyl acetate tert-Butvl acetate

iso-butyl acrylate n-Butyl acrylate n-Butyl acrylate n-Butyl alcohol

n-Butyl alcohol sec-Butyl alcohol = tert-Butyl alcohol

n-Butvraldehvde n-Butyl methacrylate = Butyl benzyl phthalate

1-Bromobutane 1-Bromobutane 2-Bromobutane Butyl butyrate = Butyl butyrate =

Ethylene glycol monobutyl ether

Butyl chloride = Butvl chloride

n-Butvl chloroformate n-Butyl chloroformate

Diethylene glycol dibutyl ether

n-Butvl acetate Di-n-butyl ether = Di-n-butyl ether = Ethyl butyl ketone n-Valeraldehyde = n-Butyl formate n-Butyl glycidyl ether =

tert-Butyl hydroperoxide

Butvl lactate n-Butyl mercaptan n-Butyl methacrylate = n-Butvl methacrvlate Methyl tert-butyl ether Methyl n-butyl ketone Dibutyl phthalate n-Butyl propionate = Tetrabutyl titanate =

Tetrabutyl titanate

COMPOUND NAMES

Butyl toluene =

Butyl, decyl, cetyl-eicosyl methacrylate Butyl, decyl, cetyl, eicosyl 2-methyl-2-

propenoate

Butylacetic acid
Butylaldechyde
iso-Butylamine
n-Butylamine
Butylamine
Mono-n-Butylamine
sec-Butylamine
tert-Butylamine

n-Butylcarbinol
n-Butylcarbinyl chloride
2-Butylene dichloride
1,4-Butylene glycol
Butylene glycol
Butylene hydrate
Butylene oxide
Alpha-Butylene oxide
1,2-Butylene oxide

Butylene

Butylethylacetaldehyde Butylethylacetaldehyde Butylethylacetic acid Butylethylamine p-tert-Butylphenol p-tert-Butyltoluene 4-tert-Butyltoluene n-Butyltrichlorosilane Butyltrichlorosilane 2-Butyne-1, 4-diol 1.4-Butvnediol iso-Butvraldehvde n-Butyraldehyde Butyraldehyde Butyric acid nitrile Butyric acid, butyl ester Butyric acid, ethyl ester

Butyric acid, methyl ester

n-Butyric acid
Butyric acid
Butyric aldehyde
Butyric ether
Butyrol chloride
Butyronitrile
n-Butyryl chloride
Butyryl chloride
C-1297
C-8 acid

Cadmium acetate dihydrate

Cadmium acetate

Cacodylic acid

Cadmium bromide tetrahydrate

Butyl toluene

Butyl, decyl, cetyl-eicosyl methacrylate

Butyl, decyl, cetyl-eicosyl methacrylate

Hexanoic acid
n-Butyraldehyde
Isobutylamine
n-Butylamine
n-Butylamine
n-Butylamine
sec-Butylamine
tert-Butylamine
n-Amyl alcohol
n-Amyl chloride

= n-Amyl chloride = Dichlorobutene = 1,4-Butanediol = Butylene glycol = sec-Butyl alcohol = 1,2-Butylene oxide = 1,2-Butylene oxide = 1,2-Butylene oxide

Butylene

Ethylhexaldehyde Ethylhexaldehyde = 2-Ethylhexanoic acid N-Ethyl-n-butylamine p-tert-butylphenol = Butyl toluene Butyl toluene Butyltrichlorosilane = Butyltrichlorosilane 1,4-Butynediol = 1.4-Butvnediol iso-butvraldehvde n-Butyraldehyde n-Butyraldehyde Butvronitrile Butyl butyrate = Ethyl butyrate = Methyl butyrate n-Butyric acid = n-Butyric acid = n-Butyraldehyde =

Lauric acid
Octanoic acid
Cacodylic acid
Cadmium acetate
Cadmium acetate
Cadmium bromide

Ethyl butyrate

Butvronitrile

Butvrvl chloride

Butyryl chloride

Butvrvl chloride

=

=

COMPOUND NAMES

Cadmium bromide = Cadmium bromide
Cadmium chloride = Cadmium chloride
Cadmium fluoborate solution = Cadmium fluoroborate
Cadmium fluoborate = Cadmium fluoroborate

Cadmium fluoroborate = Cadmium fluoroborate
Cadmium fume = Cadmium oxide
Cadmium nitrate tetrahydrate = Cadmium nitrate
Cadmium nitrate = Cadmium nitrate
Cadmium oxide = Cadmium oxide

Cadmium sulfate=Cadmium sulfateCadox HDP=Cyclohexanone peroxideCadox PS=Di-(p-chlorobenzoyl) peroxideCadox TBH=tert-Butyl hydroperoxideCake aluminum=Aluminum sulfate

Cake aluminum = Aluminum sulfate
Calamine = Zinc carbonate
Calcium abietate = Calcium resinate
Calcium abietate = Calcium resinate

Calcium alkylaromatic sulfonate = Dodecylbenzenesulfonic acid, calcium

salt

Calcium alkylbenzenesulfonate = Dodecylbenzenesulfonic acid, calcium

salt

Calcium arsenate Calcium arsenate Calcium arsenite solid Calcium arsenite Calcium arsenite Calcium arsenite Calcium biphosphate Calcium phosphate Calcium carbide Calcium carbide = Calcium chlorate Calcium chlorate _ Calcium chloride hydrates Calcium chloride

Calcium chloride, anhydrous Calcium chloride Calcium chloride Calcium chloride = Calcium chromate (vi) Calcium chromate Calcium chromate dihydrate = Calcium chromate Calcium chromate Calcium chromate Calcium cvanide Calcium cyanide Calcium dioxide Calcium peroxide = Calcium fluoride Calcium fluoride

Calcium hydroxide Calcium hydroxide Calcium hypochlorite Calcium hypochlorite = Calcium nitrate tetrahydrate Calcium nitrate = Calcium nitrate Calcium nitrate Calcium oxide Calcium oxide = Calcium peroxide Calcium peroxide = Calcium phosphate Calcium phosphate = Calcium phosphide Calcium phosphide Calcium pyrophosphate Calcium phosphate Calcium resinate, fused Calcium resinate Calcium resinate Calcium resinate

Calcium rosin = Calcium resinate
Calcium superphosphate = Calcium phosphate

Calcium = Calcium

Calochlor = Mercuric chloride
Calomel = Mercurous chloride

Camphene = Camphene Camphor oil = Camphor oil

COMPOUND NAMES

Cane sugar Sucrose Capraldehyde Decaldehyde n-Capric acid Decanoic acid Capric alcohol n-Decyl alcohol Capric aldehyde Decaldehyde Caprinic acid Decanoic acid Caproaldehyde n-Hexaldehyde n-Caproic acid Hexanoic acid epsilon-Caprolactam Caprolactam = Caprolactam Caprolactam = Capronaldehyde n-Hexaldehyde Capronic acid Hexanoic acid Capronic aldehyde n-Hexaldehyde = n-Caproylaldehyde n-Hexaldehyde Caprylene = 1-Octene n-Caprylic acid Octanoic acid Captan Captan

Carbamaldehyde Formamide

Carbamic acid, ammonium salt Ammonium carbamate

Carbamide peroxide Urea peroxide Carbamide Urea =

Carbaryl Carbaryl Carbide Calcium carbide

Carbitol Diethylene glycol monoethyl ether

Carbobenzoxy chloride Benzyl chloroformate

Carbofuran Carbofuran =

Carbolic oil (mixture) Carbolic acid =

Carbolic acid Phenol

Carbolic oil (mixture) Carbolic oil (mixture) = Carbon bisulfide Carbon disulfide = Carbon dioxide Carbon dioxide Carbon disulfide Carbon disulfide Carbon monoxide Carbon monoxide Carbon oxyfluoride Carbon oxvfluoride Carbon tetrachloride Carbon tet

Carbon tetrachloride Carbon tetrachloride Carbonic acid gas Carbon dioxide Carbonic acid, diethyl ester Diethyl carbonate = Carbonic acid, monoammonium salt Ammonium bicarbonate Thallium carbonate

Carbonic acid, thallium (1+) salt Carbonic anhydride Carbon dioxide Carbonic difluoride Carbon oxyfluoride n-Butyl chloroformate Carbonochloridic acid, butyl ester =

Carbonyl chloride Phosgene Carbonyl diamine peroxide Urea peroxide Carbonyl difluoride Carbon oxyfluoride Carbonyl fluoride Carbon oxyfluoride

Carbonvldiamide Urea Carboxylbenzene Benzoic acid = Carene Carene

3-Carene Carene Carolid AL Diphenyl =

Carpeting medium Asphalt blending stocks: straight run

=

residue

COMPOUND NAMES

Carthamus tinctorius oil Carwinate 125 M

Cashew nutshell liquid Cashew nutshell oil

Casoron

Catalyst 9915

Catechin Catechol

Caustic arsenic chloride Caustic potash solution Caustic potash Caustic soda solution

Caustic soda Cellosolve acetate

Cellosolve acetate

Cellosolve

Cellosolve

Cellulose nitrate solution

Cetyl sodium sulfate

Cetyltrimethylammonium chloride

solution

CGA24705

Chaloxyd MEKP-ha 1, -la 1

Chamber acid Charcoal Chem bam Chile saltpeter

Chinese red Chinese tannin Chinese tannin Chinoline Chloracetic acid

Chloracetic acid

Chloracetyl chloride Chloral

Chlorate of potash Chlorate of potassium Chlorate of soda

Chlorate of soda

Chlorbenzal Chlordan Chlordane Chlordecone

2-Chlorethanol Chlorethylene

Chlorex Chloride of amyl

Chlorinated biphenvl Chlorinated hydrochloric ether

Chlorine trifluoride

Chlorine

2-Chloro-1-ethanal 2-Chloro-1-hydroxybenzene 3-Chloro-1-methylbenzene

Oils. edible: safflower

Diphenylmethane diisocyanate Oil. misc: cashew nut shell Oil. misc: cashew nut shell

Dichlobenil

Benzyl dimethylamine

Catechol = Catechol

= Arsenic trichloride = Caustic potash solution Potassium hydroxide Caustic soda solution Sodium hydroxide = = 2-Ethoxyethyl acetate

Ethylene glycol monoethyl ether acetate

2-Ethoxyethanol

Ethylene glycol monoethyl ether

= Collodion

Hexadecyl sulfate, sodium salt =

Hexadecyltrimethylammonium chloride

Metolachlor

2-Butanone peroxide

Sulfuric acid = Charcoal Nabam =

Sodium nitrate Mercuric sulfide Tannic acid Tannic acid = Quinoline

Chloroacetic acid

Chloroacetic acid (80% or less)

Chloroacetyl chloride Trichloroacetaldehyde Potassium chlorate Potassium chlorate Sodium chlorate

Sodium chlorate solution

Benzal chloride = Chlordane Chlordane = Kepone =

Ethylene chlorohydrin

Vinvl chloride

2,2-Dichloroethyl ether

n-Amyl chloride =

Polychlorinated biphenyl 1.1-Dichloroethane Chlorine trifluoride

Chlorine

Chloroacetaldehyde = o-Chlorophenol = m-Chlorotoluene

COMPOUND NAMES

2-Chloro-1-methylbenzene 4-Chloro-1-methylbenzene 1-Chloro-1-nitropropane

3-Chloro-1, 2-propylene oxide

2-Chloro-1, 3-butadiene

1-Chloro-1,1,2,2-tetrafluoroethane

5-Chloro-2-aminotoluene 4-Chloro-2-methylaniline 3-Chloro-2-methylpropene 1-Chloro-2-nitrobenzene 1-Chloro-2,3-epoxypropane 1-Chloro-3-methylbenzene 2-Chloro-4-ethylamino-6-1-Chloro-4-methylbenzene

Chloroacetaldehyde, monomer

Chloroacetaldehyde

4-Chloro-o-toluidine

Chloroacetic acid (80% or less) Chloroacetic acid, ethyl ester

Chloroacetic acid, methyl ester

Chloroacetic acid Chloroacetophenone

omega-Chloroacetophenone alpha-Chloroacetophenone Chloroacetyl chloride 2-Chloroallyl chloride p-Chloroaniline 4-Chloroaniline Chlorobenzene

Bis-(p-Chlorobenzoy) peroxide p-Chlorobenzoyl peroxide p,p'-Chlorobenzoyl peroxide 2-Chlorobuta-1, 3-diene 2-Chlorobutadiene 1-Chlorobutane

Chlorocarbonic acid, methyl ester Chlorocarbonic acid, n-butyl ester

Chlorodifluoromethane

4-Chlorobutyronitrile

Chloroethanal Chloroethane Chloroethanoic acid 2-Chloroethanol 2-Chloroethyl alcohol Bis (2-Chloroethyl) ether

Chloroform

Chloroformic acid dimethylamide Chloroformic acid. benzvl ester Chloroformic acid, benzyl ester Chloroformic acid, ethyl ester Chloroformic acid, methyl ester

Chloroformic acid, n-butyl ester

Chloroformyl chloride

Chlorohydrins

o-Chlorotoluene p-Chlorotoluene

1-Chloro-1-nitropropane

Epichlorohydrin = Chloroprene =

Monochlorotetrafluoroethane

4-Chloro-o-toluidine = 4-Chloro-o-toluidine = Methallyl chloride = o-Chloronitrobenzene = **Epichlorohydrin** m-Chlorotoluene =

Atrazine =

p-Chlorotoluene 4-Chloro-o-toluidine Chloroacetaldehyde Chloroacetaldehyde

= Chloroacetic acid (80% or less)

Ethyl chloroacetate = Methyl chloroacetate Chloroacetic acid = Chloroacetophenone Chloroacetophenone Chloroacetophenone = Chloroacetyl chloride = 2,3-Dichloropropene = p-chloroaniline = p-chloroaniline

Chlorobenzene Di-(p-chlorobenzoyl) peroxide = Di-(p-chlorobenzoyl) peroxide = Di-(p-chlorobenzoyl) peroxide

Chloroprene Chloroprene = Butyl chloride 4-Chlorobutyronitrile = Methyl chloroformate n-Butyl chloroformate = Chlorodifluoromethane = Chloroacetaldehyde Ethyl chloride

Chloroacetic acid (80% or less) =

Ethylene chlorohydrin = Ethylene chlorohydrin 2.2-Dichloroethyl ether

Chloroform

=

N,N-Dimethylcarbamoyl chloride =

Benzyl chloroformate Benzyl chloroformate = Ethyl chloroformate Methyl chloroformate n-Butyl chloroformate =

Phosgene = Chlorohydrins

COMPOUND NAMES

4,4'-dichloro-alpha-trichloromethyl

benzhvdrol

2,2'-Dichloroisopropyl ether

Methallyl chloride

Methyl chloride

gamma-Chloroisobutvlene

Bis (2-Chloroisopropyl) ether

Chloromethane

Chloromethyl methyl ether Chloromethyl methyl ether = Chloromethyl phenyl ketone Chloroacetophenone = Chloromethyloxirane **Epichlorohydrin** o-Chloronitrobenzene o-Chloronitrobenzene = o-Chlorophenol o-Chlorophenol = 4-Chlorophenol p-Chlorophenol = p-Chlorophenol p-Chlorophenol =

1,1-Bis(p-Chlorophenyl)-2,2,2-

trichloroethanol

4-Chlorophenylamine p-chloroaniline = Trichlorfon Chlorophos Chloropicrin = Chloropicrin Chloroprene Chloroprene beta-Chloroprene Chloroprene 1-Chloropropane = n-Propyl chloride 3-Chloropropanoic acid 3-Chloropropionic acid

3-Chloropropene Allyl chloride 2-Chloropropionic acid 2-Chloropropionic acid = alpha-Chloropropionic acid 2-Chloropropionic acid beta-Chloropropionic acid 3-Chloropropionic acid 3-Chloropropionic acid 3-Chloropropionic acid = Epichlorohydrin =

gamma-Chloropropylene oxide 3-Chloropropylene Allyl chloride = Chlorosulfonic acid Chlorosulfonic acid = Chlorosulfuric acid Chlorosulfonic acid Chlorotetrafluoroethane Monochlorotetrafluoroethane

Chlorothene

Trichloroethane = omega-Chlorotoluene Benzyl chloride = alpha-Chlorotoluene = Benzyl chloride 3-Chlorotoluene m-Chlorotoluene m-Chlorotoluene m-Chlorotoluene 2-Chlorotoluene o-Chlorotoluene o-Chlorotoluene o-Chlorotoluene p-Chlorotoluene p-Chlorotoluene 4-Chlorotoluene p-Chlorotoluene = Trifluorochloroethylene Chlorotrifluoroethylene

Chlorotrifluoromethane Monochlorotrifluoromethane Chlorotrimethylsilane Trimethylchlorosilane = n-Amyl chloride 1-Chlorpentane =

Chlorpyrifos Dursban =

Chlorsulfonic acid Chlorosulfonic acid Chlorthepin Endosulfan Chlorylen Trichloroethylene =

CHP Cumene hydroperoxide = Chromic (III) acetate Chromic acetate

Chromic acetate Chromic acetate Chromic acid, dilithium salt Lithium chromate Chromic acid, strontium salt (1:1) Strontium chromate Chromic acid Chromic anhydride =

Chromic anhydride Chromic anhydride = Chromic anhydride Chromic oxide

COMPOUND NAMES

Chromic sulfate

Chromic sulfate Chromium (VI) dioxychloride

Chromyl chloride Chromium acetate Chromic acetate Chromium chloride Chromous chloride Chromium dichloride Chromous chloride Chromium III sulfate Chromic sulfate Chromium lithium oxide Lithium chromate = Chromium oxychloride Chromyl chloride = Chromium sulfate Chromic sulfate = Chromium triacetate Chromic acetate Chromic anhydride Chromium trioxide Chromous chloride Chromous chloride

Chromyl chloride Chromyl chloride = Cianurina = Mercuric cyanide

Citric acid, diammonium salt = Ammonium citrate, dibasic

Citric acid Citric acid

Clorox Sodium hypochlorite

Clorox = Sodium hypochlorite solution

Co-ral Coumaphos = Coal tar pitch Coal tar pitch

Coalite NTP Trixylenyl phosphate = Cobalt (II) bromide Cobalt bromide (ous) Cobalt (II) chloride Cobalt chloride Cobalt (II) fluoride Cobalt fluoride

Cobalt acetate tetrahydrate Cobalt acetate Cobalt acetate Cobalt acetate = Cobalt amino sulfonate Cobalt sulfamate Cobalt bromide (ous) Cobalt bromide (ous) Cobalt chloride Cobalt chloride

Cobalt dibromide Cobalt bromide (ous) = Cobalt difluoride Cobalt fluoride Cobalt diformate Cobalt formate Cobalt fluoride Cobalt fluoride Cobalt formate Cobalt formate Cobalt nitrate Cobalt nitrate Cobalt sulfamate Cobalt sulfamate Cobalt sulfate Cobalt sulfate Cobalt(II) acetate Cobalt acetate _ Cobalt(II) nitrate Cobalt nitrate Cobalt(II) sulfate Cobalt sulfate

Cobaltous acetate Cobalt acetate Cobalt bromide (ous) Cobaltous bromide Cobaltous chloride dihydrate Cobalt chloride = Cobaltous chloride hexahydrate Cobalt chloride

Cobaltous chloride Cobalt chloride Cobaltous formate Cobalt formate Cobaltous nitrate hexahydrate Cobalt nitrate Cobaltous nitrate Cobalt nitrate Cobaltous sulfamate = Cobalt sulfamate

Cobaltous sulfate heptahydrate Cobalt sulfate Oils, edible: coconut Coconut butter Coconut oil Oils, edible: coconut = Cocure 26 Phenylmercuric acetate =

Codal Metolachlor

Common verdigris

Copper oxalate

Coumaphos

COMPOUND NAMES

Codoil = Oils, miscellaneous: resin
Codoil = Oils, miscellaneous: rosin

Collodion=CollodionCologne spirit=Ethyl alcoholColonial spirit=Methyl alcoholColumbian spirit=Methyl alcohol

Combustion improver C-12 = Methylcyclopentadienylmanganese

tricarbonyl
= Copper subacetate
= Sodium fluoroacetate

Copper oxalate

Coumaphos

Compound 1080 = Sodium fluoroacetate
Condensed phosphoric acid = Polyphosphoric acid

Conoco SA 597 = Dodecylbenzenesulfonic acid

Copper acetate = Copper acetate
Copper acetoarsenite = Copper acetoarsenite

Copper ammonium sulfate = Copper sulfate, ammoniated

Copper fluoroborate Copper fluoroborate Copper formate Copper formate Copper glycinate Copper glycinate = Copper iodide Copper iodide Copper lactate Copper lactate = Copper monobromide Copper bromide (ous) = Copper naphthenate Copper naphthenate Copper nitrate Copper nitrate = Copper orthoarsenite Copper arsenite =

Copper subacetate = Copper subacetate
Copper sulfate pentahydrate = Copper sulfate

Copper sulfate, ammoniated = Copper sulfate, ammoniated

Copper sulfate = Copper sulfate
Copper tartrate = Copper tartrate
Copper(II) fluoborate solution = Copper fluoroborate
Copperas

Copperas = Ferrous sulfate
Copra oil = Oils, edible: coconut
Corflex 880 = Diisooctyl phthalate
Corn sugar solution = Dextrose solution

Corn syrup = Corn syrup
Corrosive mercury chloride = Mercuric chloride

Cosan PMA-100 = Phenylmercuric acetate
Cotoran multi = Metolachlor

Crankcase oil = Oils, miscellaneous: lubricating
Crankcase oil = Oils, miscellaneous: motor

=

Creosote (wood) = Creosote (wood)
Creosote oil = Creosote, coal tar
Creosote, coal tar = Creosote (wood)
Creosote = Creosote (wood)

Creosote = Creosote (wood)
Cresol, epoxypropyl ether = Cresyl glycidyl ether

m-Cresol = m-Cresol

COMPOUND NAMES

 3-Cresol
 = m-Cresol

 o-Cresol
 = o-Cresol

 2-Cresol
 = o-Cresol

 p-Cresol
 = p-Cresol

 Cresols
 = Cresols

Cresyl glycidyl ether = Cresyl glycidyl ether

Cresylate spent caustic solution = Cresylate spent caustic solution

Cresylate spent caustic = Cresylate spent caustic solution

m-Cresylic acid = m-Cresol
Cresylic acid = Xylenol
Cresylic acids = Cresols

o-Cresylphosphate (>= Tricresyl phosphate (>= 1% ortho

isomer)

Croplas EH = Ethyl hexyl tallate Crotenaldehyde = Crotonaldehyde

Croton oil = Oils, miscellaneous: croton
Croton tiglium oil = Oils, miscellaneous: croton

Crotonaldehyde = Crotonaldehyde Crotonic aldehyde = Crotonaldehyde

Crotonoel = Oils, miscellaneous: croton

Crude epichlorohydrin = Chlorohydrins
Crystallized verdigris = Copper acetate
CTF = Chlorine trifluoride
CTFE = Trifluorochloroethylene
Cucumber dust = Calcium arsenate

Cumene bottoms = Diisopropylbenzene (all isomers)

Cumene hydroperoxide = Cumene hydroperoxide

Cumene = Cumene
Cumol = Cumene

Cumyl hydroperoxide = Cumene hydroperoxide Cuprammonium sulfate = Copper sulfate, ammoniated

Cupric acetate monohydrate = Copper acetate
Cupric acetate, basic = Copper subacetate
Cupric amino acetate = Copper glycinate

Cupric ammine sulfate = Copper sulfate, ammoniated

Cupric arsenite=Copper arseniteCupric bromide, anhydrous=Copper bromideCupric chloride dihydrate=Copper chlorideCupric diformate=Copper formateCupric fluoborate solution=Copper fluoroborate

Cupric green = Copper nuoroborate

Cupric green = Copper arsenite

Cupric oxalate trihydrate = Copper oxalate

Cupric sulfate = Copper sulfate

Cupricin = Copper cyanide (ous)

Cupriethylenediamine hydroxide solution = Cupriethylenediamine solution = Cupriethylenediamine solution

Cuprous cyanide = Copper cyanide (ous)
Cuprous iodide = Copper iodide
Curaterr = Cyanoacetic acid = Cyanoacetic acid
Cyanide of calcium = Calcium cyanide
Cyanide of zinc = Zinc cyanide

Cyanide = Potassium cyanide

COMPOUND NAMES

Cyanoacetic acid
Cyanoacetonitrile
Cyanobenzene
Cyanoethane
2-Cyanoethanol
Cyanoethylene

Cyanogas A-dust
Cyanogas G-fumigant
Cyanogen bromide
Cyanogen chloride
Cyanogen
Cyanomethane
Cyanopropane
2-Cyanopropene-1

Cyclodan

1,5,9-Cyclododecatriene

Cycloheptane

2,5-Cyclohexadiene-1,4-dione 1,4-Cyclohexadienedione

Cyclohexane Cyclohexanol

Cyclohexanone peroxide

Cyclohexanone
Cyclohexanyl acetate
Cyclohexenyltrichlorosilane
2-Cyclohexyl-4,6-dinitrophenol

Cyclohexyl acetate
Cyclohexyl alcohol
Cyclohexyl ethane
Cyclohexyl ketone
Cyclohexylamine, n-ethyl
Cyclohexylamine, n,n-dimethyl

Cyclohexylamine

N-Cyclohexylethylamine Cyclohexylmethane Cyclopentane, methyl

Cyclopentane Cyclopentene Cyclopropane p-Cymene Cymol

Cythion insecticide D-D soil fumigant

2,4-D esters D.D. turpentine

2,4-D Dalapon

Dalmation-insect powder

2,6-DBN DBP DCEE DCP DDD Cyanoacetic acidPropanedinitrileBenzonitrilePropionitrile

Ethylene cyanohydrin

Acrylonitrile
Calcium cyanide
Calcium cyanide
Cyanogen bromide
Cyanogen chloride

= Cyanogen= Acetonitrile= Butyronitrile= Methacrylonitrile= Endosulfan

= 1,5,9-Cyclododecatriene

= Cycloheptane= p-Benzoquinone= p-Benzoquinone= Cyclohexane= Cyclohexanol

Cyclohexanone peroxide

CyclohexanoneCyclohexyl acetate

Cyclohexenyltrichlorosilane4,6-Dinitro-o-cyclohexyl phenol

Cyclohexyl acetateCyclohexanolEthyl cyclohexaneCyclohexanone

N-Ethylcyclohexylamine

N,N-Dimethylcyclohexylamine

= Cyclohexylamine
= N-Ethylcyclohexylamine
= Methylcyclohexane
= Methyl cyclopentane
= Cyclopentane
= Cyclopentene

Cyclopropanep-Cymenep-CymeneMalathion

Dichloropropene, dichloropropane

mixture

= 2,4-D esters= Turpentine

2,4-Dichlorophenoxyacetic acid2,2-Dichloropropanoic acid

= Pyrethrins
= Dichlobenil
= Dibutyl phthalate
= 2,2-Dichloroethyl ether
= Calcium phosphate

= DDD

COMPOUND NAMES

 $\begin{array}{lll} p,p'\text{-DDT} & = & DDT \\ DDT & = & DDT \\ DDVP & = & Dichlorvos \end{array}$

Decaborane = Decaborane Decachloroketone = Kepone

Decahydronaphthalene = Decahydronaphthalene

Decaldehyde = Decaldehyde

Decalin = Decahydronaphthalene

Decanal = Decaldehyde

Bicyclo[4.4.0]Decane = Decahydronaphthalene

n-Decane = Decane
Decane = Decane
1-Decanecarboxylic acid = Undecanoic acid
Decanoic acid = Decanoic acid
Decanoic acid = Decanoic acid

Decanoic acid = Decanoic acid
1-Decanol = n-Decyl alcohol
alpha-Decene = 1-Decene
1-Decene = Mirex

Decyl acrylate, inhibited n-Decyl acrylate = Decyl acrylate n-Decyl acrylate = n-Decyl acrylate n-Decyl acrylate n-Decyl alcohol n-Decyl alcohol = n-Decyl aldehyde Decaldehyde = n-Decylbenzene n-Decylbenzene Decylbenzene n-Decylbenzene =

Decylbenzenesulfonic acid = $Alkyl(C_{11}, C_{17})$ benzenesulfonic acid

n-Decylic acid = Decanoic acid

Deep lemon yellow = Strontium chromate

DEG = Diethylene glycol

DEHP = Di-(2-ethylhexyl)phthalate
DEHPA = Di-(2-ethylhexyl)phosphoric acid

Dehydrite = Magnesium perchlorate

DEK = Diethyl ketone

Demeton = Demeton

DEN = Diethylamine

Denatured alcohol = Ethyl alcohol

Detergent alkylate # = Dodecylbenzene Detergent HD-90 = Dodecyl benzene sulfonic acid, sodium

salt

Dexol stump remover = Potassium nitrate

Dextrone = Diquat

Dextrose solution = Dextrose solution

Di-(2-chloroethyl) ether = 2,2-Dichloroethyl ether

Di-(2-ethylhexyl) adipate = Di-(2-ethylhexyl) adipate

Di-(2-ethylhexyl) phosphate = Di-(2-ethylhexyl)phosphoric acid Di-(2-ethylhexyl) sulfosuccinate, sodium = Dioctyl sodium sulfosuccinate

salt

COMPOUND NAMES

Di-(2-ethylhexyl)phosphoric acid

Di-(2-ethylhexyl)phthalate Di-(4-chlorobenzoyl) peroxide Di-(6-methylheptyl) phthalate

Di-(p-chlorobenzoyl) peroxide

Di-(p-chlorophenyl)

trichloromethylcarbinol Di-beta-hydroxyethoxyethane

Di-n-amyl phthalate
Di-n-butyl ether
Di-n-butyl ketone
Di-n-butylamine
Di-n-hexyl adipate
Di-n-nonyl phthalate
Di-n-propyl ether
Di-n-propylamine

Di-on

Di-sec-octyl phthalate

Di-syston

2,6-Di-tert-butylphenol Di (2-ethylhexyl) adipate Di (2-ethylhexyl) phthalate Di(2-hydroxyethyl) amine Di(7-methyloctyl) phthalate

Di(ethylene oxide)
Diacetic ether
Diacetone alcohol

Diacetone

Diacetyl peroxide solution

Diacetylmethane

1,6-Diamino-2,2,4(or2,4,4)trimethylhexane

1,11-Diamino-3,6,9-triazaundecane p.p'-Diaminobiphenyl

2,2'-Diaminodiethylamine p-Diaminodiphenyl 1,2-Diaminoethane 1,2-Diaminoethane 1,6-Diaminohexane 2,4-Diaminotoluene Diammonium chromate

Diammonium citrate
Diammonium hydrogen phosphate
Diammonium orthophosphate

Diammonium oxalate

Diammonium salt of zinc EDTA

Diamyl phthalate Diamyl phthalate Diantimony trioxide

Diazinon

Dibenzo [b,e] pyridine

Dibenzol dipropylene glycol ester

Dibenzoyl peroxide Dibenzyl ether Di-(2-ethylhexyl)phosphoric acidDi-(2-ethylhexyl)phthalateDi-(p-chlorobenzovl) peroxide

= Diisooctyl phthalate

Di-(p-chlorobenzoyl) peroxide

= 4,4'-dichloro-alpha-trichloromethyl

benzhydrol

Triethylene glycol
Di-n-amyl phthalate
Di-n-butyl ether
Di-n-butyl ketone
Di-n-butylamine
Di-n-hexyl adipate
Dinonyl phthalate
n-Propyl ether
Di-n-propylamine

= Diuron

= Di-(2-ethylhexyl)phthalate

Disulfoton
Dibutylphenol
Dioctyl adipate
Dioctyl phthalate
Diethanolamine
Diisononyl phthalate

= 1,4-Dioxane

Ethyl acetoacetateDiacetone alcoholDiacetone alcoholAcetyl peroxide solution

= Acetylacetone

Trimethyl hexamethylene diamine

= Tetraethylenepentamine

Benzidine

= Diethylenetriamine

= Benzidine

EthylenediamineEthylenediamineHexamethylenediamine

= Hexamethylenediamine

Toluenediamine

Ammonium chromate

Ammonium citrate, dibasicAmmonium phosphate

= Ammonium phosphate

Ammonium oxalate

Diammonium salt of zinc EDTA

Amyl phthalateDi-n-amyl phthalateAntimony trioxide

DiazinonAcridine

= Dipropylene glycol dibenzoate

Dibenzoyl peroxideDibenzyl ether

COMPOUND NAMES

DIBK Diisobutvl ketone Dibrom Naled 1,2-Dibromo-2,2-dichloroethyl dimethyl Naled

phosphate

1,2-Dibromoethane Ethylene dibromide Ethylene dibromide sym-Dibromoethane Dibromomethane Dibromomethane =

Ethylene glycol dibutyl ether 1,2-Dibutoxyethane 2,2'-Dibutoxyethyl ether Diethylene glycol dibutyl ether Dibutyl carbitol Diethylene glycol dibutyl ether =

Dibutyl cellosolve Ethylene glycol dibutyl ether n-Dibutyl ether Di-n-butvl ether = Dibutyl ether Di-n-butyl ether = Dibutyl oxide = Di-n-butyl ether Dibutyl phthalate Dibutyl phthalate Dibutylamine Di-n-butylamine Dibutylphenol Dibutylphenol

Dicalcium phosphate = Calcium phosphate

Dicamba Dicamba = Dicarbomethoxyzinc Zinc acetate Dichlobenil Dichlobenil Dichlone Dichlone Dichlorfendism Diuron

Dichloricide p-Dichlorobenzene 1,1-Dichloro-1-nitroethane 1,1-Dichloro-1-nitroethane 2,3-Dichloro-1-propane 2,3-Dichloropropene

2,3-Dichloro-1,4-naphthoquinone Dichlone = cis-1,4-Dichloro-2-butene Dichlorobutene trans-1,4-Dichloro-2-butene Dichlorobutene 1,4-Dichloro-2-butene Dichlorobutene = 1,4-Dichloro-2-butylene Dichlorobutene

1,1-Dichloro-2,2-bis(p-chlorophenyl) = DDD ethane

4,4'-Dichloro-alpha-trichloromethyl 4.4'-Dichloro-alpha-trichloromethyl benzhydrol benzhydrol

3,6-Dichloro-o-anisic acid Dicamba Dichloroacetic acid. methyl ester Methyl dichloroacetate

meta-Dichlorobenzene m-Dichlorobenzene m-Dichlorobenzene m-Dichlorobenzene 1,3-Dichlorobenzene m-Dichlorobenzene o-Dichlorobenzene o-Dichlorobenzene ortho-Dichlorobenzene o-Dichlorobenzene 1.2-Dichlorobenzene o-Dichlorobenzene = p-Dichlorobenzene p-Dichlorobenzene

p,p'-Dichlorobenzoyl peroxide = Di-(p-chlorobenzoyl) peroxide

Dichlorobutene Dichlorobutene = Dichlorodiethyl ether 2.2-Dichloroethyl ether Dichlorodifluoromethane Dichlorodifluoromethane = Dichlorodiphenyldichloroethane DDD

Dichlorodiphenylsilane Diphenyldichlorosilane Dichlorodiphenylsilicane Diphenyldichlorosilane =

Dichlorodiphenyltrichloroethane DDT =

2.6-Dichlorobenzonitrile

1,1-Dichloroethane 1,1-Dichloroethane

Dichlobenil

COMPOUND NAMES

1,2-Dichloroethane
Dichloroether

2,2-Dichloroethyl ether trans-1,2-Dichloroethylene sym-Dichloroethylene cis-1,2-Dichloroethylene 1,2-Dichloroethylene 1,1-Dichloroethylene unsym-Dichloroethylene Dichlorofluoromethane 1,6-Dichlorohexane

2,2'-Dichloroisopropyl ether 2,2'-Dichloroisopropyl ether

Dichloromethane

Dichloromonofluoromethane

2,4-Dichlorophenol

2,4-Dichlorophenoxyacetic acid, butoxyethyl ester

2,4-Dichlorophenoxyacetic acid Dichlorophenylphosphine

Dichlorophos

1,1-Dichloropropane 1,2-Dichloropropane Dichloropropane 1,3-Dichloropropane

2,2-Dichloropropanoic acid 1,3-Dichloropropene and 1,2-

Dichloropropane

Dichloropropene, dichloropropane mixture

1,3-Dichloropropene
Dichloropropene
2,3-Dichloropropene
2,2-Dichloropropionic acid
2,3-Dichloropropylene
Dichlorotetrafluoroethane
1,2-Dichlorotetrafluoroethane
2,2-Dichlorovinyl O,O-dimethyl

phosphate

Dichlorvos

Dichromium sulfate Dichromium trisulfate

Dicofol

Dicy Dicyan

1,4-Dicyanobutane Dicyanogen

Dicyclohexanone diperoxide

Dicyclopentadiene

Dieldrin

Diesel ignition improver

Diesel oil (light) Diesel oil, medium = 2,2-Dichloroethyl ether
= 2,2-Dichloroethyl ether
= 1,2-Dichloroethylene
= 1,2-Dichloroethylene
= 1,2-Dichloroethylene

Ethylene dichloride

= 1,2-Dichloroethylene= Vinylidene chloride

Vinylidene chloride

= Dichloromonofluoromethane

1,6-Dichlorohexane

= 2,2'-Dichloroisopropyl ether= 2,2'-Dichloroisopropyl ether

= Dichloromethane

= Dichloromonofluoromethane

= 2,4-Dichlorophenol

= 2,4-D esters

2,4-Dichlorophenoxyacetic acidBenzene phosphorus dichloride

= Dichlorvos

= 1,1-Dichloropropane
= 1,2-Dichloropropane
= 1,2-Dichloropropane
= 1,3-Dichloropropane

= 2,2-Dichloropropanoic acid

= Dichloropropene, dichloropropane mixture

 Dichloropropene, dichloropropane mixture

= 1,3-Dichloropropene
= 1,3-Dichloropropene
= 2,3-Dichloropropene
= 2,2-Dichloropropanoic acid
= 2,3-Dichloropropene
= Dichlorotetrafluoroethane

Dichlorotetrafluoroethane

= Dichlorvos

DichlorvosChromic sulfateChromic sulfate

= 4,4'-Dichloro-alpha-trichloromethyl

benzhydrol

Dicvclopentadiene

= Cyanogen= Adiponitrile= Cyanogen

Cyclohexanone peroxideDicyclopentadiene

= Dieldrin = n-Amyl nitrate = Oils, fuel: 1-D = Oils, fuel: 2-D

COMPOUND NAMES

Diethanolamine lauryl sulfate solution

Diethanolamine

Diethion

1,1-Diethoxyethane 1,2-Diethoxyethane

O,O-Diethyl-5-2-(ethylthio)ethyl phosphodithioate

O,O-Diethyl-O-(3-chloro-4-methyl-2-oxo-

(2h)-1-benzopyran-7-yl)

phosphorothioate

Diethyl "cellosolve"

Diethyl acetal Diethyl carbonate

Diethyl ether Diethyl ketone

O,O-Diethyl O-(2-isopropyl-6-methyl-4pyrimidinyl)phosphorothioate

Diethyl oxide

Diethyl phthalate Diethyl sulfate Diethyl sulphate Diethylamine

2-N-Diethylaminoethanol Diethylaminoethanol

2,6-Diethylaniline Diethylbenzene Diethylene glycol di-n-butyl ether

Diethylene glycol dibutyl ether Diethylene glycol dimethyl ether Diethylene glycol ethyl ether acetate

Diethylene glycol ethyl ether

Diethylene glycol methyl ether acetate Diethylene glycol methyl ether

Diethylene glycol monobutyl ether

acetate

Diethylene glycol monobutyl ether Diethylene glycol monoethyl ether Diethylene glycol monomethyl ether Diethylene glycol n-hexyl ether Diethylene glycol phthalate

Diethylene glycol Diethylene imidoxide Diethylene oxide Diethylene oximide Diethylenediamine Diethyleneimide oxide Diethylenetriamine

N.N-Diethylethanolamine

Diethylzinc Dieyanomethane 1,1-Difluoroethane Difluorophosphoric acid Difluorophosphorus acid

Diformyl

Dodecvl sulfate, diethanolamine salt

Diethanolamine

Ethion Acetal

Ethylene glycol diethyl ether

Disulfoton

Coumaphos

Ethylene glycol diethyl ether

Acetal

= Diethyl carbonate Ethyl ether Diethyl ketone

= Diazinon

Ethyl ether

Diethyl phthalate Diethyl sulfate Diethyl sulfate

Diethylamine

N,N-Diethylethanolamine N,N-Diethylethanolamine

2,6-Diethylaniline Diethylbenzene =

Diethylene glycol dibutyl ether = Diethylene glycol dibutyl ether Diethylene glycol dimethyl ether Diethylene glycol ethyl ether acetate =

Diethylene glycol monoethyl ether = Diethylene glycol methyl ether acetate Diethylene glycol monomethyl ether = Diethylene alvcol monobutyl ether

acetate

Diethylene glycol monobutyl ether = Diethylene glycol monoethyl ether Diethylene glycol monomethyl ether Diethylene glycol n-hexyl ether Diethylene glycol phthalate

Diethylene glycol = Morpholine = Tetrahydrofuran = Morpholine Piperazine Morpholine Diethylenetriamine =

N.N-Diethylethanolamine

Diethylzinc Propanedinitrile 1,1-Difluoroethane Difluorophosphoric acid = Difluorophosphoric acid =

Glyoxal

COMPOUND NAMES

Diglycidyl ether of Bisphenol A Diglycol monobutyl ether acetate Bisphenol A diglycidyl ether Diethylene glycol monobutyl ether acetate

Diglycol monobutyl ether

Diethylene glycol monobutyl ether =

Diglycol Diglyme Diethylene glycol

Diheptyl phthalate

Diethylene glycol dimethyl ether

1,2-Dihydro-3,6-pyridazinedione

Diheptyl phthalate = Maleic hydrazide =

2.5-Dihydroperoxy-2,5-dimethylhexane

Dimethylhexane dihydroperoxide =

1,4-Dihydroxy-2-butene 1,4-Dihydroxy-2-butyne 2.2-Dihvdroxv-3.3.5.5.6.6-

1,4-Butenediol = 1,4-Butynediol =

hexachlorodiphenylmethane

Hexachlorophene

1,2-Dihydroxybenzene p-Dihydroxybenzene 1,3-Dihydroxybenzene m-Dihydroxybenzene Dihydroxybenzol 1,4-Dihydroxybutane Dihydroxybutane

Catechol = Hydroquinone Resorcinol Resorcinol Resorcinol 1,4-Butanediol Butylene glycol Diethanolamine = Bisphenol A

2,2'-Dihydroxydiethyl amine

Diisopropanolamine

p,p'-Dihydroxydiphenyldimethylmethane 2,2'-Dihydroxydipropylamine

> Ethylene glycol = Propylene glycol = Diisobutyl ketone = Diisobutyl phthalate =

1,2-Dihydroxyethane 1,2-Dihydroxypropane Diisobutyl ketone Diisobutyl phthalate Diisobutylamine Diisobutylcarbinol Diisobutylene

Diisobutylamine Diisobutylcarbinol = Diisobutylene = Diisodecyl phthalate Diisononyl adipate = Diisononyl phthalate

Diisononyl adipate Diisononyl phthalate Diisooctyl phthalate Diisopropanolamine Diisopropyl ether

Diisodecyl phthalate

Diisopropanolamine Isopropyl ether Diisopropyl naphthalene Diisopropyl naphthalene =

Diisooctyl phthalate

Diisopropyl naphthalene 2,6-Diisopropyl naphthalene

Isopropyl ether =

=

=

Diisopropyl oxide

Isopropyl percarbonate Isopropyl percarbonate = Diisobutyl ketone =

Diisopropyl percarbonate Diisopropyl peroxydicarbonate 5-Diisopropylacetone

> Diisopropylamine = Diisopropylbenzene (all isomers) Diisopropylbenzene hydroperoxide

Diisopropylamine

= Lauroyl peroxide Lithium chromate = Sulfuric acid. spent 1,1-Dimethylhydrazine

Diisopropylbenzene (all isomers) Diisopropylbenzene hydroperoxide

Ethylene glycol dimethyl ether

Dilauroyl peroxide Dilithium chromate Dilute sulfuric acid Dimazine

> Methyl formal Brucine =

1,2-Dimethoxyethane Dimethoxymethane

> Isooctyl alcohol =

10,11-Dimethoxystrychnine Dimethyl-1-hexanols

Camphene

3,3-Dimethyl-2-methylene norcamphane

COMPOUND NAMES

2,2-Dimethyl-3-methylene norborane = Camphene
2,6-Dimethyl-4-heptane = Diisobutyl ketone
2,6-Dimethyl-4-heptanol = Diisobutylcarbinol
N,N-Dimethyl-n-(2-hydroxyethyl) amine alpha, alpha-Dimethyl-propionic acid = Trimethylacetic acid

N,N-Dimethyl acetamide solution (40% or less) = N,N-Dimethyl acetamide solution (40% or less)

Dimethyl acetone = Diethyl ketone
Dimethyl adipate = Dimethyl adipate
N,N-Dimethyl benzene methanamine = Benzyl dimethylamine
N,N-Dimethyl benzylamine = Benzyl dimethylamine

Dimethyl carbamic chloride = N,N-Dimethylcarbamoyl chloride Dimethyl cellosolve = Ethylene glycol dimethyl ether

Dimethyl ether = Dimethyl ether
Dimethyl formal = Methyl formal
Dimethyl glutarate = Dimethyl glutarate
Dimethyl hexanedioate = Dimethyl adipate

Dimethyl hydrogen phosphite = Dimethyl hydrogen phosphite

Dimethyl ketone = Acetone

O,O-Dimethyl o-p-nitrophenyl = Methyl parathion thiophosphate

2,2-Dimethyl octanoic acid = Neodecanoic acid

Dimethyl phosphite = Dimethyl hydrogen phosphite

Dimethyl phthalate = Dimethyl phthalate O,O-Dimethyl s-[(4-oxo-1,2,3- = Azinphos methyl

benzotriazine-3-(4h)yl)methyl]phosphorodithioate

Dimethyl silicone fluids = Dimethylpolysiloxane
Dimethyl silicone oil = Dimethylpolysiloxane
Dimethyl succinate = Dimethyl succinate
Dimethyl sulfate = Dimethyl sulfate
Dimethyl sulfide = Dimethyl sulfide
Dimethyl sulfoxide = Dimethyl sulfoxide

Dimethyl terephthalate = Dimethyl terephthalate N,N-(Dimethyl) a-tolueneamine = Benzyl dimethylamine N-N-Dimethylacetamide = Dimethylacetamide Dimethylacetamide = Dimethylacetamide

Dimethylacetamide = N,N-Dimethyl acetamide solution (40% or

less)

Dimethylacetic acid = Isobutyric acid

Dimethylacetylenecarbinol = 2-Methyl-2-hydroxy-3-butyne

Dimethylamine = Dimethylamine

2-(Dimethylamino)ethanol = Dimethylethanolamine
a-(Dimethylamino)toluene = Benzyl dimethylamine
B-Dimethylaminoethyl alcohol = Dimethylethanolamine
2,6-Dimethylaniline = 2,6-Dimethylaniline
Dimethylarsinic acid = Cacodylic acid

alpha,alpha-Dimethylbenzene = Cumene hydroperoxide

hydroperoxide
1,3-Dimethylbenzene = m-Xylene
1,2-Dimethylbenzene = o-Xylene
1,4-Dimethylbenzene = p-Xylene

Dimethylbenzyl hydroperoxide = Cumene hydroperoxide

2,2-Dimethylbutane = Neohexane

COMPOUND NAMES

2,2-Dimethylcaprylic acid

N,N-Dimethylcarbamoyl chloride Dimethylcarbamylchloride

Dimethylcarbinol

N,N-Dimethylchloroformamide n-Dimethylcyclohexanamine N,N-Dimethylcyclohexylamine

N,N-Dimethylcyclohexylam Dimethyldichlorosilane Dimethylethanolamine

1,1-Dimethylethylamine

Dimethylethynylcarbinol N,N-Dimethylformamide Dimethylformamide Dimethylhexanals

2,5-Dimethylhexane-2,5-dihydroperoxide

Dimethylhexane dihydroperoxide

1,1-Dimethylhydrazine unsym-Dimethylhydrazine sym-Dimethylhydrazine 1,2-Dimethylhydrazine Dimethylmethane

2,2-Dimethyloctanoic acid Dimethylol propane

Dimethylphenol phosphate (3:1)

Dimethylphenol Dimethylphosphonate Dimethylpolysiloxane

2,2-Dimethylpropane-1,3-diol 1,1-Dimethylpropargyl alcohol Bis(Dimethylthiocarbamyl)disulfide

Dimethyltrimethylene glycol

Dimethylzinc 2,4-Dinitraniline

2,4-Dinitro-6-cyclohexylphenol

2,6-Dinitro-n,n-dipropyl-4trifluoromethylaniline

3,5-Dinitro-o-cresol 2,6-Dinitro-o-cresol 4,6-Dinitro-o-cresol

4,6-Dinitro-o-cyclohexyl phenol Dinitro-o-cyclohexylphenol

2,4-Dinitroaniline
m-Dinitrobenzene
1,3-Dinitrobenzene
meta-Dinitrobenzene
o-Dinitrobenzene
1,2-Dinitrobenzene
1,4-Dinitrobenzene
p-Dinitrobenzene
1,3-Dinitrobenzol
Dinitrobenzol

Dinitrogen monoxide

o-Dinitrobenzol

Dinitrocresol

2,2-Dimethyloctanoic acid

N,N-Dimethylcarbamoyl chlorideN,N-Dimethylcarbamoyl chloride

Isopropyl alcohol

N,N-Dimethylcarbamoyl chloride
 N,N-Dimethylcyclohexylamine
 N,N-Dimethylcyclohexylamine

DimethyldichlorosilaneDimethylethanolamine

= tert-Butylamine

= 2-Methyl-2-hydroxy-3-butyne

DimethylformamideDimethylformamideIsooctaldehyde

Dimethylhexane dihydroperoxideDimethylhexane dihydroperoxide

= 1,1-Dimethylhydrazine
= 1,1-Dimethylhydrazine
= 1,2-Dimethylhydrazine
= 1,2-Dimethylhydrazine

Propane

= 2,2-Dimethyloctanoic acid= 2,2-Dimethylpropane-1,3-diol

= Trixylenyl phosphate

= Xvlenol

= Dimethyl hydrogen phosphite

Dimethylpolysiloxane

= 2,2-Dimethylpropane-1,3-diol= 2-Methyl-2-hydroxy-3-butyne

= Thiram

2,2-Dimethylpropane-1,3-diol

Dimethylzinc2,4-Dinitroaniline

4,6-Dinitro-o-cyclohexyl phenol

Trifluralin

DinitrocresolDinitrocresolDinitrocresol

4,6-Dinitro-o-cyclohexyl phenol4,6-Dinitro-o-cyclohexyl phenol

2,4-Dinitroaniline
 m-Dinitrobenzene
 m-Dinitrobenzene
 m-Dinitrobenzene
 o-Dinitrobenzene
 o-Dinitrobenzene
 p-Dinitrobenzene
 p-Dinitrobenzene
 m-Dinitrobenzene
 m-Dinitrobenzene
 Dinitrobenzene
 Dinitrobenzene
 Nitrous oxide

COMPOUND NAMES

Dinitrogen tetroxide Nitrogen tetroxide 2,4-Dinitrophenol 2,4-Dinitrophenol alpha-Dinitrophenol 2.4-Dinitrophenol 2,5-Dinitrophenol 2,5-Dinitrophenol gamma-Dinitrophenol 2,5-Dinitrophenol beta-Dinitrophenol 2,6-Dinitrophenol 2,6-Dinitrophenol 2,6-Dinitrophenol o-o-Dinitrophenol 2,6-Dinitrophenol 2.4-Dinitrotoluene 2.4-Dinitrotoluene 2,6-Dinitrotoluene 2,6-Dinitrotoluene 3,4-Dinitrotoluene 3,4-Dinitrotoluene 2.4-Dinitrotoluol 2.4-Dinitrotoluene Dinonyl 1,2-benzenedicarboxylate Dinonyl phthalate Dinonyl phthalate = Dinonyl phthalate Dioctyl adipate = Dioctyl adipate

Dioctyl phthalate Dioctyl phthalate

Dioctyl sodium sulfosuccinate Dioctyl sodium sulfosuccinate

Dioform 1,2-Dichloroethylene =

Dioxane 1,4-Dioxane p-Dioxane 1,4-Dioxane 1,4-Dioxane 1.4-Dioxane Dioxonium perchlorate solution Perchloric acid 1,3-Dioxophthalan Phthalic anhydride

DIPB Diisopropylbenzene (all isomers) =

Dipentene Dipentene = Dipentyl phthalate Amyl phthalate = Di-n-amyl phthalate Dipentyl phthalate =

Diphenyl-diphenyl ether mixture Dowtherm Diphenyl ether Diphenyl ether Diphenyl ketone Benzophenone = Diphenyl methanone Benzophenone Diphenyl oxide Diphenyl ether = Diphenvl Diphenvl Diphenvlamine Diphenvlamine

Diphenyldichlorosilane Diphenyldichlorosilane

Diphenylmethane-4,4'-diisocyanate Diphenylmethane diisocyanate Diphenvlmethane diisocvanate Diphenylmethane diisocvanate Diphenylsilicon dichloride Diphenyldichlorosilane

Dipropanediol dibenzoate Dipropylene glycol dibenzoate

Dipropyl ether n-Propyl ether N,N-Dipropylaniline Nitralin =

Dipropylene glycol dibenzoate Dipropylene glycol dibenzoate = Dipropylene glycol methyl ether Dipropylene glycol methyl ether = Dipropylene glycol monomethyl ether Dipropylene glycol methyl ether

Dipropylene glycol Dipropylene alvcol

Dipterex Trichlorfon Diquat dibromide Diquat = Diquat Diquat

Disodium arsenate heptahydrate Sodium arsenate Disodium dihydrogen pyrophosphate Sodium phosphate Disodium ethylenebis[dithiocarbamate] Nabam

Disodium methane arsonate Methanearsonic acid, sodium salt = Disodium methyl arsonate Methanearsonic acid, sodium salt = Disodium nitrilotriacetate Nitrilotriacetic acid and salts

COMPOUND NAMES

Disodium selenite = Sodium selenite

Distillates: flashed feed stocks = Distillates: flashed feed stocks

Distillates: straight run

Distokal

Distopan

Distopan

Distopan

Distopan

Exactloroethane

Exactloroethane

Exactloroethane

Exactloroethane

Exactloroethane

Exactloroethane

Disulfoton = Disulfoton

Dithallium carbonate = Thallium carbonate

Dithane = Nabam

Dithiopyrophosphoric acid, O,O,O,O = Tetraethyl dithiopyrophosphate

tetraethyl ester

Dithiosystox = Disulfoton

Ditridecyl phthalate = Ditridecyl phthalate

Diundecyl phthalate = Diundecyl phthalate

Diurex=DiuronDiuron=DiuronDivinyl=ButadieneDivinylene oxide=Furan

divinylmethane = 1,4-Pentadiene

DMCC = N,N-Dimethylcarbamoyl chloride

DMCC = N,N-Dimethylcarbam

DMDT = Methoxychlor

DMF = Dimethylformamide

DMP = Dimethyl phthalate

DMS = Dimethyl sulfide

DMSO = Dimethyl sulfoxide

m-DNB = m-Dinitrobenzene

2,5-DNP = 2,5-Dinitrophenol

m-DNB = m-Dinitrobenzene
2,5-DNP = 2,5-Dinitrophenol
DNP = 2,6-Dinitrophenol
DNT = 2,4-Dinitrotoluene
2,6-DNT = 2,6-Dinitrotoluene
3,4-DNT = 3,4-Dinitrotoluene
DO 14 = Propargite

DOA = Dioctyl adipate
1-Dodecanethiol = Lauryl mercaptan
n-Dodecanoic acid = Lauric acid
Dodecanol = Dodecanol
Dodecanol = Linear alcohols
Dodecanoyl peroxide = Lauroyl peroxide

Dodecene (non-linear) = Dodecene
Dodecene (non-linear) = Propylene tetramer

1-Dodecene = 1-Dodecene Dodecene = Dodecene

Dodecyl-2-methyl-2-propenoate = Dodecylmethacrylate

Dodecyl alcohol = Dodecanol

Dodecyl benzene sulfonic acid, sodium = Dodecyl benzene sulfonic acid, sodium

Dodecyl diphenyl ether disulfonate = Dodecyl diphenyl ether disulfonate

solution solution

Dodecyl diphenyl ether sulfonate, = Dodecyl diphenyl ether disulfonate

disodium salt, aqueous solution solution

Dodecyl mercaptan = Lauryl mercaptan

Dodecyl phenol = Dodecyl phenol Dodecyl sulfate, ammonium salt = Ammonium lauryl sulfate

Dodecyl sulfate, diethanolamine salt = Dodecyl sulfate, diethanolamine salt

COMPOUND NAMES

Dodecyl sulfate, magnesium salt Dodecyl sulfate, sodium salt

Dodecyl sulfate, triethanolamine salt Dodecyl/pentadecyl methacrylate

Dodecylbenzene n-Dodecylbenzene n-Dodecylbenzene

Dodecylbenzenesulfonate sodium salt

Dodecylbenzenesulfonic acid, calcium

salt

Dodecylbenzenesulfonic acid, isopropylamine salt Dodecylbenzenesulfonic acid.

triethanolamine salt Dodecylbenzenesulfonic acid

alpha-Dodecylene Dodecylethylene Dodecylmethacrylate Dodecyltrichlorosilane

DOP Dormant oil

Dow-fume 40 Dowanol-50B Dowanol 33B Dowanol DB Dowanol DE Dowanol DM

Dowanol DPM Dowanol EB Dowanol EE

Dowanol EE Dowanol eipat Dowanol EM Dowanol EP Dowanol EPH

Dowanol PM Dowanol TE

Dowanol TPM

Dowco 179 Dowfax 2A1

Dowfume N

Dowicide 2 Dowicide 7 Dowtherm A

Dowtherm e

Dowtherm Dracyclic acid

Dri-tri

Drycleaner naphtha Drying oil epoxides

DSMA

Dodecyl sulfate, magnesium saltDodecyl sulfate, sodium salt

Dodecyl sulfate, triethanolamine saltDodecyl/pentadecyl methacrylate

DodecylbenzeneDodecylbenzeneDodecylbenzene

= Dodecyl benzene sulfonic acid, sodium

salt

Dodecylbenzenesulfonic acid, calcium

salt

 Dodecylbenzenesulfonic acid, isopropylamine salt
 Dodecylbenzenesulfonic acid,

 Dodecylbenzenesulfonic acid, triethanolamine salt

= Dodecylbenzenesulfonic acid

= 1-Dodecene
= 1-Tetradecene
= Dodecylmethacrylate
= Dodecyltrichlorosilane
= Dioctyl phthalate

Oils, miscellaneous: spray

= Ethylene dibromide

Dipropylene glycol methyl ether
 Propylene glycol methyl ether
 Diethylene glycol monobutyl ether
 Diethylene glycol monoethyl ether
 Diethylene glycol monomethyl ether
 Dipropylene glycol methyl ether
 Ethylene glycol monobutyl ether

= 2-Ethoxyethanol

Ethylene glycol monoethyl ether
 Ethylene glycol isopropyl ether
 Ethylene glycol monomethyl ether
 Ethylene glycol phenyl ether
 Ethylene glycol phenyl ether
 Propylene glycol methyl ether

= Ethoxy triglycol

= Tripropylene glycol methyl ether

= Dursban

= Dodecyl diphenyl ether disulfonate

solution

= Dichloropropene, dichloropropane

mixture

TrichlorophenolPentachlorophenol

Dowtherm

o-Dichlorobenzene

DowthermBenzoic acid

Sodium phosphate, tribasicNaphtha: stoddard solventEpoxidized vegetable oils

Methanearsonic acid, sodium salt

COMPOUND NAMES

DTDP = Ditridecyl phthalate

Du-sprex=DichlobenilDual=MetolachlorDuodecylic acid=Lauric acid

Duodex = Sodium 2-mercaptobenzothiazol solution

Dursban = Dursban

Dust-laying oil = Asphalt blending stocks: roofers flux

Dutch liquid = Ethylene dichloride
Dylox = Trichlorfon
Dytol S-91 = n-Decyl alcohol
E3314 = Heptachlor

EAA = Ethyl acetoacetate

EADC = Ethylaluminum dichloride

EASC = Ethylaluminum sesquichloride

EB = Ethylbenzene
EBDC, sodium salt = Nabam
Ecrinitrit = Sodium nitrite

EDC = Ethylpenzene

EDC = Ethylene dichloride Edible tallow = Tallow

EDTA-zinc complex = Diammonium salt of zinc EDTA EDTA-zinc = Diammonium salt of zinc EDTA

EDTA zinc salt = Diammonium salt of zinc EDTA EDTA = Ethylenediamine tetracetic acid

Egitol = Hexachloroethane

Ektasolve DB acetate = Diethylene glycol monobutyl ether

acetate

Ektasolve EP = Ethylene glycol propyl ether Electrical insulating oil = Oils, miscellaneous: transformer

Embafume = Methyl bromide

Emerald green = Copper acetoarsenite

Emerssence 1160 = Ethylene glycol phenyl ether

Emery 6705 = Ethylene glycol phenyl ether

Enanthic acid = Heptanoic acid Enanthic alcohol = Heptanol Endosulfan = Endosulfan

Endrate = Ethylenediamine tetracetic acid

Endrin = Endrin ENT-16391 = Kepone ENT 25,719 = Mirex

ENT 262 = Dimethyl phthalate

ENT 27,311 = Dursban

Epichlorohydrin resin = Bisphenol A diglycidyl ether

Epichlorohydrin = Epichlorohydrin

Epoxidized drying oils = Epoxidized vegetable oils Epoxidized oils = Epoxidized vegetable oils Epoxidized tall oil, octyl ester = Octyl epoxy tallate

Epoxidized vegetable oils = Epoxidized vegetable oils

1,2-Epoxybutane = n-Butyl glycidyl ether

1,2-Butylene oxide

1,2-Epoxyethane=Ethylene oxide1,2-Epoxypropane=Propylene oxide2,3-Epoxypropyl butyl ether=n-Butyl glycidyl etherEriocholcite (anhydrous)=Copper chlorideEskimon-22=Chlorodifluoromethane

Ether cyanatus

COMPOUND NAMES

Eskimon 11 = Trichlorofluoromethane Eskimon 12 = Dichlorodifluoromethane

Essence of mirbane = Nitrobenzene
Essence of Niobe = Methyl benzoate
Ethanal, trichloro- = Trichloroacetaldehyde

Ethanal = Acetaldehyde
Ethane dinitrile = Cyanogen
Ethane hexachloride = Hexachloroethane
Ethane pentachloride = Pentachloroethane

Ethane, 1,1,2-trichloro- 1,2,2-trifluoro- = 1,1,2-Trichloro-1,2,2-trifluoroethane

Ethane, 1,1,2-trichloro- = 1,1,2-Trichloroethane Ethane, 1,2-dibutoxy = Ethylene glycol dibutyl ether

Ethane, pentachloro- = Pentachloroethane

Ethane = Ethane Ethanecarboxylic acid = Propionic acid

Ethanedial = Glyoxal

1,2-Ethanediamine=Ethylenediamine1,2-Ethanediamine=EthylenediamineEthanedioic acid, disodium salt=Sodium oxalate

Ethanedioic acid = Oxalic acid 1,2-Ethanediol, monoacetate = Ethylene glycol acetate

1,2-Ethanediol= Ethylene glycolEthanenitrile= AcetonitrileEthanethiol= Ethyl mercaptanEthanoic acid= Acetic acidEthanoic anlydride= Acetic anhydride

Ethanol, 2-isopropoxy = Ethylene glycol isopropyl ether

Ethanol = Ethyl alcohol
Ethanolamine = Monoethanolamine
Ethanoyl chloride = Acetyl chloride
Ethene = Ethylene

Ether ethylene glycol dibutyl = Ethylene glycol dibutyl ether Ether. bis(2-chloro-1-methylethyl) = 2,2'-Dichloroisopropyl ether

=

Propionitrile

Ether, hydrochloric = Ethyl chloride

Ether, vinyl ethyl = Vinyl ethyl ether

Ether = Ethyl ether

Ethine = Acetylene

Ethion = Ethion

Ethiops mineral = Mercuric sulfide

1-Ethoxy-2-propanol = Propylene glycol ethyl ether

2-Ethoxy-3,4-dihydro-2h-pyran = Ethoxydihydropyran

Ethoxy diglycol = Diethylene glycol monoethyl ether

Ethoxy propionic acid, ethyl ester = Ethyl-3-ethoxypropionate

Ethoxy triglycol = Ethoxy triglycol

Ethoxydihydropyran = Ethoxydihydropyran Ethoxyethane = Ethyl ether 2-Ethoxyethanol = 2-Ethoxyethanol

2-Ethoxyethanol = Ethylene glycol monoethyl ether = Diethylene glycol monoethyl ether

2-Ethoxyethyl acetate = 2-Ethoxyethyl acetate

2-Ethoxyethyl acetate = Ethylene glycol monoethyl ether acetate

Ethoxylated dodecanol = Ethoxylated dodecanol Ethoxylated dodecyl alcohol = Ethoxylated dodecanol

COMPOUND NAMES

Ethoxylated lauryl alcohol Ethoxylated dodecanol Ethoxylated myristyl alcohol Ethoxylated tetradecanol Ethoxylated nonviphenol Ethoxylated nonviphenol Ethoxylated pentadecanol = Ethoxylated pentadecanol Ethoxylated pentadecanol Ethoxylated pentadecylalcohol Ethoxylated tetradecanol Ethoxylated tetradecanol Ethoxylated tetradecyl alcohol Ethoxylated tetradecanol = Ethoxylated tridecanol Ethoxylated tridecanol = Ethoxylated tridecyl alcohol Ethoxylated tridecanol Ethoxytriethylene glycol Ethoxy triglycol =

2-Ethyl-1-hexanol hydrogen phosphate Di-(2-ethylhexyl)phosphoric acid

2-Ethyl-1-hexanol 2-Ethyl hexanol 2-Ethyl-1-hexylamine 2-Ethylhexylamine = 2-Ethyl-2-hexenal 2-Ethyl-3-propylacrolein 5-Ethyl-2-methyl pyridine Methylethylpyridine 6-Ethyl-2-methylaniline 2-Methyl-6-ethyl aniline

1-Ethyl-2-methylbenzene 2-Ethyl toluene 5-Ethyl-2-picoline = Methylethylpyridine Ethyl-3-ethoxypropionate Ethyl-3-ethoxypropionate 2-Ethyl-3-propylacrolein 2-Ethyl-3-propylacrolein

2-Ethyl-3-propylacrylaldehyde 2-Ethyl-3-propylacrolein = 2-Ethyl-I-butanol Ethyl butanol N-Ethyl-n-butylamine N-Ethyl-n-butylamine

6-Ethyl-o-toluidine 2-Methyl-6-ethyl aniline = Ethyl 2-hydroxypropanoate Ethyl lactate

Ethyl 2-hydroxypropionate Ethyl lactate = Ethyl 2-methacrylate Ethyl methacrylate = Ethyl 2-methyl-2-propenoate Ethyl methacrylate Ethyl 2-propenoate Ethyl acrylate = Ethyl 3-oxobutanoate Ethyl acetoacetate = Ethyl acetate Ethyl acetate Ethyl acetoacetate Ethyl acetoacetate Ethyl acetone 2-Pentanone Ethyl acrylate Ethyl acrylate Ethyl alcohol Ethyl alcohol

Ethyl aldehyde Acetaldehyde Ethyl alpha-hydroxypropionate Ethyl lactate Ethyl alpha-methylmethacrylate Ethyl methacrylate = Ethyl amyl ketone Ethyl amyl ketone =

Ethyl beta-ethoxypropionate Ethyl-3-ethoxypropionate

Ethyl butanoate Ethyl butyrate = Ethyl butanol Ethyl butanol Ethyl butyl ketone Ethyl butyl ketone = Ethyl butyrate Ethyl butyrate Ethyl carbonate Diethyl carbonate Ethyl chloracetate Ethyl chloroacetate = Ethyl chloride Ethyl chloride = Ethyl chloroacetate Ethyl chloroacetate Ethyl chlorocarbonate Ethyl chloroformate Ethyl chloroethanoate Ethyl chloroacetate Ethyl chloroformate Ethyl chloroformate

Ethyl chlorothioformate Ethyl chlorothioformate = Ethyl chlorothiolformate Ethyl chlorothioformate = Ethyl cyclohexane Ethyl cyclohexane

COMPOUND NAMES

Ethyl dichlorophosphate = Ethyl phosphorodichloridate

Ethyl dl-lactate Ethyl lactate Ethyl ethanoate Ethyl acetate Ethyl ether Ethyl ether Ethyl formate Ethyl formate Ethyl formic ester Ethyl formate 2-Ethyl hexaldehyde Ethylhexaldehyde = 2-Ethyl hexanol 2-Ethyl hexanol Ethyl hexyl phthalate Ethyl hexyl phthalate Ethyl hexyl tallate Ethyl hexyl tallate = Ethyl lactate Ethyl lactate Ethyl mercaptan Ethyl mercaptan =

Ethyl methacrylate-inhibited = Ethyl methacrylate
Ethyl methacrylate = Ethyl methacrylate
Ethyl methanoate = Ethyl formate
Ethyl methyl ketone = Methyl ethyl ketone
n-Ethyl morpholine = n-Ethyl morpholine

Ethyl nitrile = Acetonitrile
Ethyl nitrite = Ethyl nitrite
Ethyl orthosilicate = Ethyl silicate
Ethyl parathion = Parathion

Ethyl phosphate = Triethyl phosphate

Ethyl phosphonothioic dichloride = Ethyl phosphonothioic dichloride Ethyl phosphorodichloridate = Ethyl phosphorodichloridate Ethyl phosphorodichloridothionate = Ethyl phosphonothioic dichloride

Ethyl phthalate Diethyl phthalate = Ethyl propionate Ethyl propionate = Ethyl propionyl Diethyl ketone Ethyl silicate 40 Ethyl silicate = Ethyl silicate condensed Ethyl silicate = Ethyl silicate Ethyl silicate

Ethyl silicate = Ethyl silicate

Ethyl sulfate = Diethyl sulfate

Ethyl sulfhydrate = Ethyl mercaptan

Ethyl thionophosphoryl dichloride = Ethyl phosphonothioic dichloride

2-Ethyl toluene = 2-Ethyl toluene Ethyl vinyl ether = Vinyl ethyl ether Ethylacetic acid = n-Butyric acid

Ethylamine = Ethylamine
Ethylbenzene = Ethylbenzene
2-Ethylbutyl alcohol = Ethyl butanol

Ethylbutylamine = N-Ethyl-n-butylamine
2-Ethylcaproaldehyde = Ethylhexaldehyde
alpha-Ethylcaproic acid = 2-Ethylhexanoic acid
Ethylcarbinol = n-Propyl alcohol
Ethylcyanide = Propionitrile

N-Ethylcyclohexanamine = N-Ethylcyclohexylamine
N-Ethylcyclohexylamine = N-Ethylcyclohexylamine
Ethyldichlorosilane = Ethyldichlorosilane
Ethylene acetate = Ethylene glycol diacetate

Ethylene aldehyde = Acrolein

Ethylene bis (iminodiacetic acid) = Ethylenediamine tetracetic acid

Ethylene bromide = Ethylene dibromide

COMPOUND NAMES

Ethylene carboxylic acid Ethylene chlorhydrin Ethylene chloride Ethylene chlorohydrin Ethylene cyanohydrin Ethylene diacetate Ethylene dibromide Ethylene dichloride

Ethylene dihydrate

Ethylene glycol acetate
Ethylene glycol diacetate
Ethylene glycol dibutyl ether
Ethylene glycol diethyl ether

Ethylene glycol dihydroxydiethyl ether

Ethylene glycol dimethyl ether

Ethylene glycol ethyl ether

Ethylene glycol ethyl ether Ethylene glycol isopropyl ether Ethylene glycol methyl ether acetate

Ethylene glycol monobutyl ether acetate

Ethylene glycol monobutyl ether

Ethylene glycol monoethyl ether acetate

Ethylene glycol monoethyl ether acetate

Ethylene glycol monoethyl ether Ethylene glycol monoethyl ether

Ethylene glycol monomethyl ether

acetate

Ethylene glycol monomethyl ether Ethylene glycol monopropyl ether Ethylene glycol phenyl ether Ethylene glycol propyl ether Ethylene glycol, monoacetate

Ethylene glycol Ethylene oxide Ethylene

Ethylenebis [dithiocarbamic acid],

disodium salt

Ethylenediamine tetracetic acid

Ethylenediamine Ethylenediamine trans-1,2-Ethylenedicarboxylic acid

cis-1,2-Ethylenedicarboxylic acid (Ethylenedinitrilo) tetraacetic acid

2,2'-Ethylenedioxydiethanol

Ethyleneimine
Ethylhexaldehyde
2-Ethylhexanal
2-Ethylhexanoic acid
2-Ethylhexoic acid
2-Ethylhexyl acetate
2-Ethylhexyl acrylate

2-Ethylhexyl alcohol

Bis-(2-Ethylhexyl) hydrogen phosphate

Bis(2-Ethylhexyl) phthalate

= Acrylic acid

Ethylene chlorohydrin
 Ethylene dichloride
 Ethylene chlorohydrin
 Ethylene cyanohydrin
 Ethylene glycol diacetate

Ethylene dibromideEthylene dichlorideEthylene glycol

Ethylene glycol acetate
 Ethylene glycol diacetate
 Ethylene glycol dibutyl ether
 Ethylene glycol diethyl ether

= Triethylene glycol

= Ethylene glycol dimethyl ether

= 2-Ethoxyethanol

Ethylene glycol monoethyl ether
 Ethylene glycol isopropyl ether
 Ethylene glycol methyl ether acetate
 Ethylene glycol monobutyl ether acetate

= Ethylene glycol monobutyl ether

2-Ethoxyethyl acetate

= Ethylene glycol monoethyl ether acetate

= 2-Ethoxyethanol

Ethylene glycol monoethyl etherEthylene glycol methyl ether acetate

Ethylene glycol monomethyl ether

Ethylene glycol propyl ether
 Ethylene glycol phenyl ether
 Ethylene glycol propyl ether
 Ethylene glycol acetate

= Ethylene glycol = Ethylene oxide = Ethylene = Nabam

= Ethylenediamine tetracetic acid

EthylenediamineEthylenediamineFumaric acidMaleic acid

= Ethylenediamine tetracetic acid

Triethylene glycol
Ethyleneimine
Ethylhexaldehyde
Ethylhexaldehyde
2-Ethylhexanoic acid
2-Ethylhexanoic acid
2-Ethylhexyl acetate
2-Ethylhexyl acrylate
2-Ethyl hexanol

= Di-(2-ethylhexyl)phosphoric acid

Di-(2-ethylhexyl)phthalate

COMPOUND NAMES

bis-(2-Ethylhexyl) phthalate = Dioctyl phthalate

Bis-(2-Ethylhexyl) sodium sulfosuccinate = Dioctyl sodium sulfosuccinate

Bis-(2-Ethylhexyl)phthalate = Ethyl hexyl phthalate 2-Ethylhexyl, 2-propenoate = 2-Ethylhexyl acrylate 2-Ethylhexylamine = 2-Ethylhexylamine beta-Ethylhexylamine = 2-Ethylhexylamine Ethylidene chloride = 1,1-Dichloroethane Ethylidene dichloride = 1,1-Dichloroethane

Ethylidene diethylether = Acetal

Ethylidene difluoride = 1,1-Difluoroethane
Ethylidene fluoride = 1,1-Difluoroethane
Ethylidene norbornene = Ethylidene norbornene
Ethylidenenorbornylene = Ethylidene norbornene

Ethylidenenorbornylene = Ethylidene norbornene Ethylidenenorcamphene = Ethylidene norbornene

o-Ethylmethylbenzene = 2-Ethyl toluene
Ethylmethylketone peroxide
n-Ethylmorpholine = n-Ethyl morpholine
4-Ethylmorpholine = n-Ethyl morpholine
2-Ethylphenol = Ethylphenol

Ethylphenol = Ethylphenol = Ethylphenol = Ethylphenol

Ethylphenyldichlorosilane = Ethylphenyldichlorosilane Ethylpyrophosphate = Tetraethyl pyrophosphate Ethylsilicon trichloride = Ethyltrichlorosilane o-Ethyltoluene = 2-Ethyl toluene

Ethyltrichlorosilane = Ethyltrichlorosilane Ethylzinc = Diethylzinc

Ethyne = Acetylene Ethynyl carbinol = Propargyl alcohol Ethynyl methanol = Propargyl alcohol

Eufin Diethyl carbonate Eunatrol Oleic acid. sodium salt Antimony trioxide Exitelite Trichlorofluoromethane F-11 F-114 Dichlorotetrafluoroethane F-12 Dichlorodifluoromethane F-124 Monochlorotetrafluoroethane F-13 Monochlorotrifluoromethane

F-21 = Dichloromonofluoromethane
Falkitol = Hexachloroethane
Fasciolin = Hexachloroethane
Fast red GG base = 4-Nitroaniline
Fast red IG base = 4-Nitroaniline

Fast white = Lead sulfate

Fast red TR base

Fenoprop = 2-(2,4,5-Trichlorophenoxy) propanoic

acio

4-Chloro-o-toluidine

Fermentation alcohol = Ethyl alcohol
Fermentation amyl alcohol = Isoamyl alcohol
Fermentation butyl alcohol = Isobutyl alcohol
Fermine = Dimethyl phthalate
Ferric ammonium citrate, brown = Ferric ammonium citrate

Ferric ammonium citrate, brown = Ferric ammonium citrate Ferric ammonium citrate, green = Ferric ammonium citrate

COMPOUND NAMES

Ferric ammonium citrate = Ferric ammonium citrate Ferric ammonium oxalate = Ferric ammonium oxalate

Ferric chloride, anhydrous = Ferric chloride Ferric chloride, hexahydrate = Ferric chloride Ferric chloride = Ferric chloride Ferric fluoride = Ferric fluoride

Ferric glycerophosphate = Ferric glycerophosphate

Ferric nitrate nonahydrate = Ferric nitrate

Ferric nitrate = Ferric nitrate

Ferric sulfate = Ferric sulfate

Ferrophosphorus = Ferrophosphorus

Ferrosilicon = Ferrosilicon

Ferrous ammonium sulfate hexahydrate = Ferrous ammonium sulfate Ferrous ammonium sulfate = Ferrous ammonium sulfate

Ferrous borofluoride = Ferrous fluoroborate
Ferrous chloride tetrahydrate = Ferrous chloride
Ferrous chloride = Ferrous chloride
Ferrous fluoroborate = Ferrous fluoroborate
Ferrous oxalate dihydrate = Ferrous oxalate
Ferrous oxalate = Ferrous oxalate
Ferrous sulfate = Ferrous sulfate

Ferrox = Ferrous oxalate
Fertilizer acid = Sulfuric acid
Filmerine = Sodium nitrite

Flaxseed oil = Oils, miscellaneous: linseed

Flexol plasticizer DIOP = Diisooctyl phthalate
Flouristan = Stannous flouride
Flowers of antimony = Antimony trioxide
Fluophosgene = Carbon oxyfluoride

Fluorane 114 = Dichlorotetrafluoroethane

Fluorine = Fluorine

2-Fluoro-1-methylbenzene = 2-Fluorotoluene
4-Fluoro-1-methylbenzene = 4-Fluorotoluene
1-Fluoro-2-methylbenzene = 2-Fluorotoluene
1-Fluoro-3-methylbenzene = 3-Fluorotoluene
1-Fluoro-4-methylbenzene = 4-Fluorotoluene
Fluoroacetic acid, sodium salt = Sodium fluoroacetate
0-Fluoroaniline = 2-Fluoroaniline
2-Fluoroaniline = 2-Fluoroaniline

2-Fluoroaniline = 2-Fluoroaniline 4-Fluoroaniline = 4-Fluoroaniline p-Fluoroaniline = 4-Fluoroaniline 2-Fluorobenzenamine = 2-Fluoroaniline 4-Fluorobenzenamine = 4-Fluoroaniline Fluorobenzene = Fluorobenzene

Fluorodichloromethane = Dichloromonofluoromethane

Fluoroethylene = Vinyl fluoride
Fluoroformyl fluoride = Carbon oxyfluoride
2-Fluorophenylamine = 2-Fluoroaniline
4-Fluorophosgene = Carbon oxyfluoride
Fluorosilic acid = Fluosilicic acid

Fluorosilic acid = Hydrofluorosilicic acid (25% or less)

Fluorosulfonic acid = Fluosulfonic acid Fluorosulfuric acid = Fluosulfonic acid

COMPOUND NAMES

2-Fluorotoluene 2-Fluorotoluene o-Fluorotoluene 2-Fluorotoluene m-Fluorotoluene 3-Fluorotoluene 3-Fluorotoluene 3-Fluorotoluene 4-Fluorotoluene 4-Fluorotoluene p-Fluorotoluene 4-Fluorotoluene Fluorspar Calcium fluoride Fluosilicic acid = Fluosilicic acid Fluospar Calcium fluoride Fluosulfonic acid Fluosulfonic acid

Fluxing oil = Asphalt blending stocks: roofers flux

Foliage oil = Oils, miscellaneous: spray

Formaldehyde dimethylacetol = Methyl formal
Formaldehyde polymer = Paraformaldehyde
Formaldehyde solution
Formalin = Formaldehyde solution
Formalith = Formaldehyde solution

Formamide = Formamide Formic acid, amide = Formamide

Formic acid, ammonium salt = Ammonium formate
Formic acid, ethyl ester = Ethyl formate
Formic acid, methyl ester = Methyl formate
Formic acid, zinc salt = Zinc formate
Formic acid = Formic acid

Formic aldehyde solution = Formaldehyde solution

Formic ether = Ethyl formate Formyl tribromide = Bromoform

Formylformic acid = Glyoxylic acid (50% or less)

Formylic acid = Formic acid
2-Formylphenol = Salicylaldehyde
Fowlers solution = Potassium arsenite
Freemans white lead = Lead sulfate

French verdigris = Copper subacetate
Freon-22 = Chlorodifluoromethane
Freon 11 = Trichlorofluoromethane

Freon 113 = 1,1,2-Trichloro-1,2,2-trifluoroethane

Freon 114 = Dichlorotetrafluoroethane
Freon 12 = Dichlorodifluoromethane
Freon 13 = Monochlorotrifluoromethane
Freon 21 = Dichloromonofluoromethane
Frigen 11 = Trichlorofluoromethane

Frigen 113TR = 1,1,2-Trichloro-1,2,2-trifluoroethane

Frigen 12 = Dichlorodifluoromethane

Fuel oil 1-D = Oils: diesel
Fuel oil 2-D = Oils: diesel
Fuel oil no. 1 = Jet fuels: JP-1
Fuel oil no. 1 = Kerosene

Fuel oil no. 1 = Oils, miscellaneous: range

Fumaric acid = Fumaric acid Fumigrain = Acrylonitrile Fuming liquid arsenic = Arsenic trichloride

Fuming sulfuric acid = Oleum
Furadan = Carbofuran
Fural/pyromucic aldehyde = Furfural

COMPOUND NAMES

Fural = Furfural 2-Furaldehyde = Furfural Furan = Furan

2-Furancarbinol = Furfuryl alcohol 2,5-Furanedione = Maleic anhydride

Furfural = Furfural

Furfuralcohol = Furfuryl alcohol

Furfuraldehyde = Furfural
Furfuran = Furn
Furfurole = Furfural

Furfuryl alcohol = Furfuryl alcohol
2-Furylcarbinol = Furfuryl alcohol
Fusel oil = Isoamyl alcohol

Fyde = Formaldehyde solution
Galena = Lead sulfide

Galena = Lead sulfide
Gallic acid monohydrate = Gallic acid
Gallic acid = Gallic acid
Gallotannic acid = Tannic acid
Gallotannin = Tannic acid

Gammexane = gamma-Benzene hexachloride

Gas oil: cracked = Gas oil: cracked

Gasoline blending stocks: alkylates
Gasoline blending stocks: reformates
Gasolines: automotive (<4.23g lead/gal)
Gasolines: aviation (< 4.86g lead/gal)

= Gasoline blending stocks: alkylates
Gasoline blending stocks: reformates
Gasolines: automotive (<4.23g lead/gal)
Gasolines: aviation (< 4.86g lead/gal)

Kepone

Gasolines: casinghead = Gasolines: casinghead Gasolines: polymer = Gasolines: polymer Gasolines: straight run = Gasolines: straight run

GC-1189

Gelbin yellow ultramarine = Calcium chromate
Gemalgene = Trichloroethylene
Genetron-22 = Chlorodifluoromethane
Genetron 11 = Trichlorofluoromethane
Genetron 1113 = Trifluorochloroethylene
Genetron 12 = Dichlorodifluoromethane

Gerhardite = Copper nitrate
Glacial acetic acid = Acetic acid
D-Glucitol = Sorbitol

Glucose solution = Dextrose solution Glutaraldehyde solution = Glutaraldehyde solution

Glycerine = Glycerine Glycerite = Tannic acid

Glycerol trichlorhydrin = 1,2,3-Trichloropropane

Glycerol = Glycerine

Glyceryl trichlorhydrin 1.2.3-Trichloropropane Glycidyl alpha-methyl acrylate Glycidyl methacrylate Glycidyl isopropyl ether Isopropyl glycidyl ether = Glycidyl methacrylate Glycidyl methacrylate Glycine copper complex Copper glycinate = Glycocoll-copper Copper glycinate Glycol-monoacetin Ethylene glycol acetate

Glycol butyl ether = Ethylene glycol monobutyl ether

Glycol chlorohydrin = Ethylene chlorohydrin Glycol cyanohydrin = Ethylene cyanohydrin

COMPOUND NAMES

Glycol diacetate Ethylene glycol diacetate Glycol dibromide Ethylene dibromide Glycol dichloride Ethylene dichloride Glycol monoacetate Ethylene glycol acetate

Glycol monobutyl ether acetate Ethylene glycol monobutyl ether acetate

Glycol monoethyl ether acetate 2-Ethoxyethyl acetate

Glycol monoethyl ether acetate Ethylene glycol monoethyl ether acetate =

Glycol monoethyl ether 2-Ethoxyethanol =

Glycol monoethyl ether Ethylene glycol monoethyl ether Glycol monomethyl ether acetate Ethylene glycol methyl ether acetate = Glycol monomethylether Ethylene glycol monomethyl ether

Ethylene alvcol

Glycol = Glyoxal Glyoxal =

Glyoxylic acid (50% or less) = Glyoxylic acid (50% or less)

Grain alcohol Ethyl alcohol Grape sugar solution Dextrose solution

Gray arsenic Arsenic

Green nickel oxide Nickel hydroxide Green oil Anthracene Green verdigris Copper subacetate Green vitriol Ferrous sulfate Gum turpentine **Turpentine**

Azinphos methyl Gusathion insecticide Azinphos methyl Guthion insecticide =

Dichloromonofluoromethane Halocarbon 21 Halogenated waxes Polychlorinated biphenyl Dichloromonofluoromethane Halon 112

Halon 122 Dichlorodifluoromethane Halon 241 Monochlorotetrafluoroethane Halon 242 Dichlorotetrafluoroethane Hartshorn Ammonium carbonate Hatcol XPE 1-Phenyl-1-xylyl ethane

HCBD Hexachlorobutadiene 2-Hydroxyethyl acrylate HEA

Undecanoic acid Hendecanoic acid Undecanol Hendecanoic alcohol Undecanol 1-Hendecanol

Heod Dieldrin _ Heptachlor Heptachlor 1,4,5,6,7,8,8a-Heptachlor

Heptachlorodicyclopentadiene

1-Heptadecanecarboxylic acid Stearic acid cis-8-Heptadecylenecarboxylic acid Oleic acid =

Heptane Heptane n-Heptane Heptane 1-Heptanecarboxylic acid Octanoic acid Heptanoic acid Heptanoic acid = 1-Heptanol Heptanol

Heptanol Heptanol 3-Heptanone Ethyl butyl ketone 2-Heptanone Methylamyl ketone 2-Heptanone n-Amyl methyl ketone

Heptanyl acetate Heptyl acetate 1-Heptene 1-Heptene

COMPOUND NAMES

Hepthlic acid Heptanoic acid n-Heptoic acid Heptanoic acid Heptyl acetate Heptyl acetate n-Heptyl acetate Heptyl acetate 1-Heptyl acetate Heptyl acetate Heptyl alcohol Heptanol Heptylcarbinol Octanol Heptylene 1-Heptene n-Heptylethylene 1-Nonene = n-Heptylic acid Heptanoic acid

Hexa = Hexamethylenetetramine Hexachloro-1,3-butadiene = Hexachlorobutadiene 1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a- = Aldrin

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo-exo-5,8-dimethanonaphthalene.

endo,exo-1,2,3,4,10,10-Hexachloro-6,7-

expoxy-1,4,4a,5,6,7,8,8aoctahydro-1,4:5,8dimethanonaphthalene

Hexachlorobenzene = Hexachlorobenzene Hexachlorobutadiene = Hexachlorobutadiene

1,2,3,4,5,6-Hexachlorocyclohexane = gamma-Benzene hexachloride

Dieldrin

Hexachlorocyclopentadiene dimer = Mirex

Hexachlorocyclopentadiene = Hexachlorocyclopentadiene

Hexachloroethane = Hexachloroethane
Hexachlorophene = Hexachlorophene
Hexacid 1095 = Decanoic acid
Hexacid 698 = Hexanoic acid
Hexacid 898 = Octanoic acid

Hexadecyl sulfate, sodium salt = Hexadecyl sulfate, sodium salt

Hexadecyltrimethylammonium chloride = Hexadecyltrimethylammonium chloride

Endrin

Hexadrin =

Hexafluosilicic acid = Fluosilicic acid
Hexahydric alcohol = Sorbitol
Hexahydro-1,4-diazine = Piperazine
Hexahydro-2h-azepine-2-one = Caprolactam
Hexahydroaniline = Cyclohexylamine
Hexahydroazepine = Hexamethylenimine
Hexahydrobenzene = Cyclohexane

Hexahydrocresols = 2-Methylcyclohexanol Hexahydrocumene = Isopropyl cyclohexane

Hexahydrophenol = Cyclohexanol Hexahydropyrazine = Piperazine Hexahydrotoluene = Methylcyclohexane

n-Hexaldehyde = n-Hexaldehyde Hexalin = Cyclohexanol Hexamethylene = Cyclohexane

Hexamethylenediamine = Hexamethylenediamine
Hexamethylenimine = Hexamethylenimine
Hexamine = Hexamethylenimine
Hexamine = Hexamethylenetetramine

Hexanal = n-Hexaldehyde
Hexanaphthene = Cyclohexane
Hexane carboxylic acid = Heptanoic acid

COMPOUND NAMES

Hexane, 1,6-diisocyanato- 2,2,4(2,4,4)- = Trimethylhexamethylene diisocyanate

trimethyl-

 $\begin{array}{lll} \mbox{Hexane} & = & \mbox{n-Hexane} \\ \mbox{n-Hexane} & = & \mbox{n-Hexane} \end{array}$

1,6-Hexanediamine, 2,2,4(or2,4,4)- = Trimethyl hexamethylene diamine

trimethyl-1.6-Hexanediamine

1,6-Hexanediamine = Hexamethylenediamine Hexanedinitrile = Adiponitrile Hexanedioic acid, dimethyl ester = Dimethyl adipate

Hexanedioic acid = Adipic acid 1,2,3,4,5,6-Hexannehexol = Sorbitol

Hexanoic acid, 2-ethylHexanoic acid
Hexanoic acid
Hexanoic acid
Hexanoic acid

n-Hexanol = 1-Hexanol 1-Hexanol = 1-Hexanol

2-Hexanone = Methyl n-butyl ketone
Hexaplas M/1B = Diisobutyl phthalate
Hexaplas M/O = Diisooctyl phthalate
alpha-Hexene = 1-Hexene

1-Hexene = 1-Hexene iso-Hexene = 2-Methyl-1-pentene

n-Hexoic acid = Hexanoic acid Hexone = Methyl isobutyl ketone

n-Hexyl acetate = Hexyl acetate
Hexyl acetate = Hexyl acetate
1-Hexyl acetate = Hexyl acetate
Hexyl acetate = Methyl amyl acetate
Hexyl acetate = Methyl amyl acetate

Hexyl alcohol, acetate
n-Hexyl alcohol
sec-Hexyl alcohol
= Hexyl acetate
= 1-Hexanol
= Ethyl butanol

Hexyl carbitol = Diethylene glycol n-hexyl ether Hexyl ethanoate = Hexyl acetate Hexylene glycol = Hexylene glycol

Hexylene giycoi = Hexylene giyc Hexylene = 1-Hexene

HFSA = Hydrofluorosilicic acid (25% or less)

HHDN = Aldrin

Hi-dry = Tetraethylene glycol

High speed bearing oil = Oils, miscellaneous: spindle Higher fatty alcohol = Tallow fatty alcohol

HMDA = Hexamethylenediamine

Home-heating oil = Oils, fuel: 2 Homopiperidine = Hexamethylenimine

Household ammonia = Ammonium hydroxide (<28% aqueous

ammonia)

HSDB 5700 = 2-Hydroxy-4-(methylthio)-butanoic acid HTH dry chlorine = Calcium hypochlorite

HTH = Calcium hypochlorite
Hydracrylic acid, beta-lactone = beta-Propiolactone

Hydrazinobenzene = Phenylhydrazine
Hydrazoic acid, sodium salt = Sodium azide
Hydrobromic acid monoammoniate = Ammonium bromide

COMPOUND NAMES

Hydrobromic acid, anhydrous Hydrochloric acid, anhydrous

Hydrochloric acid

Hydrocyanic acid, sodium salt

Hydrocyanic acid Hydrocyanic ether

Hydrofluoric acid, anhydrous

Hydrofluoric acid

Hydrofluorosilicic acid (25% or less)

Hydrofluosilic acid

Hydrofol acid 1255 or 1295 Hydrogen bromide, anhydrous

Hydrogen bromide
Hydrogen chloride
Hydrogen cyanide
Hydrogen fluoride

Hydrogen hexafluorosilicate Hydrogen peroxide carbamide

Hydrogen peroxide Hydrogen sulfide Hydrogen para-Hydrogen

1-Hydroperoxycyclohexyl

Hydroquinol Hydroquinone

N-Hydroxethyl-1,2-ethanediamine

2-Hydroxy-1,2,3-propane-tricarboxylic

acid

1-Hydroxy-2-cyanoethane 2-Hydroxy-2-methyl-3-butyne 2-Hydroxy-2-methylpropanenitrile

1-Hydroxy-2-phenoxyethane

1-Hydroxy-2,4-dinitro-benzene 6-Hydroxy-3-(2h)-pyridazinone

2-Hydroxy-4-(methylthio)-butanoic acid

4-Hydroxy-4-methyl-2-pentanone

2-Hydroxy-m-xylene

beta-Hydroxy-tricarboxylic acid

Alpha-Hydroxy isobutronitrile O-Hydroxybenzaldehyde

Hydroxybenzene o-Hydroxybenzoic acid 1-Hydroxybutane 2-Hydroxybutane

2-Hydroxychlorobenzene Hydroxycyclohexane

1-Hydroxycyclohexyl peroxide Hydroxydimethylarsine oxide

Bis-[2-(2-Hydroxyethoxy) ethyl ether 2-Hydroxyethyl 2-propenoate

2-Hydroxyethyl acetate 2-Hydroxyethyl acrylate beta-Hydroxyethyl acrylate

b-Hydroxyethyl isopropyl ether

Hydrogen bromideHydrogen chlorideHvdrochloric acid

Sodium cyanideHydrogen cyanide

PropionitrileHydrogen fluorideHydrofluoric acid

= Hydrofluorosilicic acid (25% or less)

= Fluosilicic acid= Lauric acid

Hydrogen bromide
 Hydrogen bromide
 Hydrogen chloride
 Hydrogen cyanide
 Hydrogen fluoride
 Fluosilicic acid
 Urea peroxide
 Hydrogen peroxide

Hydrogen sulfideHydrogenHydrogen

Cyclohexanone peroxide

HydroquinoneHydroquinone

= Aminoethylethanolamine

Citric acid

= Ethylene cyanohydrin

Methyl butynolAcetone cyanohydrin

= Ethylene glycol phenyl ether

= 2,4-Dinitrophenol= Maleic hydrazide

= 2-Hydroxy-4-(methylthio)-butanoic acid

Diacetone alcohol

XylenolCitric acid

Acetone cyanohydrinSalicylaldehyde

Salicylaidenyde
Phenol
Salicylic acid
n-Butyl alcohol
sec-Butyl alcohol
o-Chlorophenol
Cyclohexanol

= Cyclohexanone peroxide

Cacodylic acid
Tetraethylene glycol
2-Hydroxyethyl acrylate
Ethylene glycol acetate
2-Hydroxyethyl acrylate
2-Hydroxyethyl acrylate

= Ethylene glycol isopropyl ether

COMPOUND NAMES

1-Hydroxyheptane = Heptanol 1-Hydroxyhexane = 1-Hexanol

Hydroxylamine sulfate = Hydroxylamine sulfate Hydroxylamine = Hydroxylamine

2,2-bis(Hydroxymethyl)-1,3-propanediol = Pentaerythritol
2-Hydroxymethylfuran = Furfuryl alcohol
2-Hydroxynitrobenzene = 2-Nitrophenol
3-Hydroxynitrobenzene = 3-Nitrophenol
4-Hydroxynitrobenzene = 4-Nitrophenol

2,2-Bis(4-Hydroxyphenyl)propane = Bisphenol A 3-Hydroxypropanenitrile = Ethylene cyanohydrin

2-Hydroxypropanoic acid = Lactic acid alpha-Hydroxypropionic acid = Lactic acid

2-Hydroxypropionitrile = Lactonitrile solution (80% or less)

Hydroxypropyl acrylate = Hydroxypropyl acrylate
Hydroxypropyl methacrylate = Hydroxypropyl methacrylate
Tris(2-Hydroxypropyl) amine = Triisopropanolamine
2-Hydroxypropylamine = Monoisopropanolamine

Alpha-Hydroxytoluene Benzyl alcohol = 3-Hydroxytoluene m-Cresol = o-Hydroxytoluene o-Cresol = 4-Hydroxytoluene p-Cresol Hydroxytoluenes Cresols = beta-Hydroxytricarballylic acid Citric acid =

2-Hydroxytriethylamine = N,N-Diethylethanolamine Hylene M50 = Diphenylmethane diisocyanate Hylene T = Toluene 2.4-diisocyanate

Hystrene 9512 = Lauric acid
Hytrol O = Cyclohexanone
IBN = Isobutyronitrile
Illuminating oil = Kerosene

1,1'-Iminodi-2-propanol = Diisopropanolamine
2,2'-Iminodiethanol = Diethanolamine
Imperial green = Copper acetoarsenite

Inedible tallow = Tallow

Insulating oil = Oils, miscellaneous: transformer

lodomethane = Methyl iodide

IPDI = Isophorone diisocyanate

Iron (ous) sulfate = Ferrous sulfate

Iron ammonium sulfate = Ferrous ammonium sulfate

Iron dichloride Ferrous chloride Iron fluoride Ferric fluoride Iron III chloride Ferric chloride Ferric chloride Iron perchloride Iron protochloride Ferrous chloride Iron protoxalate Ferrous oxalate Iron sesquisulfate = Ferric sulfate Iron tersulfate = Ferric sulfate

COMPOUND NAMES

Iron trichloride=Ferric chlorideIron vitriol=Ferrous sulfateIron(III) sulfate=Ferric sulfate

Isceon 11 = Trichlorofluoromethane

Isoamyl alcohol=Isoamyl alcoholIsoamyl ethanoate=IsoamylacetateIsoamylacetate=IsoamylacetateIsobutane=Isobutane

Isobutanol-2-amine = 2-Amino-2-methyl-1-propanol (90% or

less)

Isobutanol amine = 2-Amino-2-methyl-1-propanol (90% or

less)

Isobutanol = Isobutyl alcohol Isobutene trimer = Triisobutylene Isobutene = Isobutylene

Isobutyl 2-methyl-2-propenoate=Isobutyl methacrylateIsobutyl 2-propenoate=iso-butyl acrylateIsobutyl acetate=Isobutyl acetateIsobutyl alcohol=Isobutyl alcoholIsobutyl alpha-methacrylate=Isobutyl methacrylate

Isobutyl alpha-methacrylate Isobutyl methacrylate = Isobutyl isobutyrate Isobutyl isobutyrate = Isobutyl methacrylate Isobutyl methacrylate Isobutyl methyl ketone Methyl isobutyl ketone Isobutyl methylmethanol Methyl amyl alcohol = Isobutyl phthalate Diisobutyl phthalate = Isobutylaldehyde iso-butyraldehyde = Isobutylamine Isobutylamine = Isobutylcarbinol Isoamyl alcohol Isobutylene Isobutylene =

Isobutylmethylcarbinol Methyl amyl alcohol = Methyl isobutyl carbinol Isobutylmethylcarbinol Isobutyraldehyde iso-butyraldehyde = 1-Isobutvrate 1-Isobutvrate Isobutvric acid Isobutvric acid Isobutyric aldehyde iso-butyraldehyde Isobutyronitrile Isobutyronitrile =

Isoctyl trichlorophenoxyacetate = 2,4,5-T esters Isocumene = n-Propylbenzene

Isocyanatomethane=Methyl isocyanateIsocyanic acid, methyl ester=Methyl isocyanateIsodecaldehyde, mixed isomers=IsodecaldehydeIsodecaldehyde-Isodecaldehyde

Isodecalderlyde | Isodecalderl

Isodiprene = Carene

Isodurene = 1,2,3,5-Tetramethylbenzene

Isohexane Isohexane Isonitropropane 2-Nitropropane Isooctaldehyde Isooctaldehyde Isooctyl alcohol Isooctyl alcohol Isooctyl ester Isooctyl ester Isooctylaldehyde Isooctaldehyde = Isopentane Isopentane = Isopentyl acetate Isoamylacetate

COMPOUND NAMES

Isopentyl alcohol Isopentyl nitrite

Isophorone diamine diisocyanate

Isophorone diamine Isophorone diisocyanate

Isophorone
Isophthalic acid
Isoprene
Isopropanol
Isopropanolamine
Isopropene cyanide
Isopropenyl methyl ketone
Isopropenylbenzene
Isopropenylnitrile
2-Isopropoxy propane
2-Isopropoxyethanol

Isopropyl 2, 4-dichlorophenoxy acetate

Isopropyl acetate
Isopropyl alcohol
Isopropyl cellosolve
Isopropyl cyanide
Isopropyl cyclohexane
Isopropyl epoxypropyl ether

Isopropyl ether

Isopropyl glycidyl ether

Isopropyl glycol Isopropyl mercaptan Isopropyl methyl ketone Isopropyl percarbonate Isopropyl peroxydicarbonate

o-Isopropyl phenol 2-Isopropyl phenol Isopropylacetone Isopropylamine

dodecylbenzenesulfonate

Isopropylamine

Isopropylamino-s-triazine

Isopropylbenzene hydroperoxide

Isopropylbenzene Isopropylcarbinol

Isopropylcumyl hydroperoxide

Isopropylformic acid 4,4'-Isopropylidendiphenol Isopropylideneacetone 4,4'-Isopropylidenediphenol-

p-Isopropyltoluene Isopropyltoluol

Isothiocyanatomethane

Isothiocyanic acid, methyl ester

Isothiourea Isotridecanol Isotridecyl alcohol

Isotron-22 Isotron 11 Isoamyl alcoholiso-Amyl nitrite

Isophorone diisocyanate Isophorone diamine Isophorone diisocyanate

Isophorone Isophthalic acid

= Isoprene

Isopropyl alcohol Monoisopropanolamine Methacrylonitrile

Methyl isopropenyl ketonealpha-MethylstyreneMethacrylonitrileIsopropyl ether

Ethylene glycol isopropyl ether

= 2,4-D esters= Isopropyl acetate= Isopropyl alcohol

Ethylene glycol isopropyl ether

= Isobutyronitrile

Isopropyl cyclohexaneIsopropyl glycidyl ether

= Isopropyl ether

= Isopropyl glycidyl ether

= Ethylene glycol isopropyl ether

Isopropyl mercaptan
 3-Methyl-2-butanone
 Isopropyl percarbonate
 Isopropyl percarbonate
 o-Isopropyl phenol
 o-Isopropyl phenol
 Methyl isobutyl ketone

 Dodecylbenzenesulfonic acid, isopropylamine salt

Isopropylamine

= Atrazine

= Cumene hydroperoxide

CumeneIsobutyl alcohol

= Diisopropylbenzene hydroperoxide

Isobutyric acid Bisphenol A Mesityl oxide

Bisphenol A diglycidyl ether

p-Cymenep-Cymene

Methyl isothiocyanateMethyl isothiocyanateThiocarbamideTridecanol

= Tridecanol

ChlorodifluoromethaneTrichlorofluoromethane

COMPOUND NAMES

Isotron 12 Dichlorodifluoromethane Isovaleral Isovaleraldehyde Isovaleraldehvde Isovaleraldehvde Isovaleraldehyde

Isovaleric aldehyde Isovalerone Diisobutyl ketone

Javelle water Sodium hypochlorite solution Jayflex DTDP Ditridecyl phthalate

Jet fuel: JP-1 Kerosene Jet fuels: JP-1 Jet fuels: JP-1 Jet fuels: JP-3 Jet fuels: JP-3 Jet fuels: JP-4 Jet fuels: JP-4 Jet fuels: JP-5 Jet fuels: JP-5

JP-1 = Oils, fuel: no. 1 JP-1 Oils, miscellaneous: range K-flex DP Dipropylene glycol dibenzoate

Karmex Diuron

Kel F monomer Trifluorochloroethylene Kelthane 4,4'-Dichloro-alpha-trichloromethyl

benzhydrol

4,4'-Dichloro-alpha-trichloromethyl Kelthanethanol

benzhydrol

Kepone Kepone Jet fuels: JP-5 Kerosene, heavy

Kerosene, heavy Oils, miscellaneous: spray

Jet fuels: JP-1 Kerosene Kerosene = Kerosene Kerosene Oils, fuel: no. 1

Kerosene Oils, miscellaneous: range

Kerosine Jet fuels: JP-1 Kerosine = Kerosene Kerosine Oils, fuel: no. 1

Kerosine Oils, miscellaneous: range 2-Ketoheptane n-Amyl methyl ketone

2-Ketohexamethylenimine Caprolactam Ketone, heptyl methyl =

Methyl heptyl ketone 2-Butanone peroxide Ketonox

Kettle rendered lard Oils, edible: lard Killax Tetraethyl pyrophosphate =

Killmaster Dursban

King's gold Arsenic trisulfide King's green = Copper acetoarsenite King's yellow = Arsenic trisulfide Korax 1-Chloro-1-nitropropane =

2-(2,4,5-Trichlorophenoxy) propanoic Kurosalg

acid

Kwik-kil Strychnine

Ammonium lactate DL-Lactic acid, ammonium salt = Ethyl lactate Lactic acid, ethyl ester

Lactic acid Lactic acid Lactonitrile solution (80% or less) Lactonitrile solution (80% or less)

Lithium aluminum hydride LAH Lanarkite Lead sulfate =

Lard Oils, edible: lard = Latex, liquid synthetic Latex, liquid synthetic

COMPOUND NAMES

Laughing gas = Nitrous oxide

Lauric acid = Lauric acid

Laurostearic acid = Lauric acid

Lauroyl peroxide = Lauroyl peroxide

Lauryl alcohol = Dodecanol

Lauryl ammonium sulfate = Ammonium lauryl sulfate

Lauryl magnesium sulfate = Dodecyl sulfate, magnesium salt

Lauryl mercaptan = Lauryl mercaptan
Lauryl methacrylate = Dodecylmethacrylate
Lauryl sodium sulfate = Dodecyl sulfate, sodium

Lauryl sodium sulfate = Dodecyl sulfate, sodium salt Lauryl sulfate, diethanolamine salt = Dodecyl sulfate, diethanolamine salt

solution

Lauryl sulfate, magnesium salt = Dodecyl sulfate, magnesium salt Lauryl sulfate, sodium salt = Dodecyl sulfate, sodium salt

Lauryl sulfate, triethanolamine salt = Dodecyl sulfate, triethanolamine salt

Laurylbenzene = Dodecylbenzene

Laurylbenzenesulfonic acid = Dodecylbenzenesulfonic acid

Lead (II) chloride = Lead chloride
Lead acetate trihydrate = Lead acetate
Lead acetate
Lead alkyls = Lead arsenate
Lead arsenate = Lead arsenate
Lead arsenate = Lead arsenate

Lead arsenate = Lead arsenate
Lead bottoms = Lead sulfate
Lead chloride = Lead chloride
Lead dichloride = Lead chloride
Lead difluoride = Lead fluoride
Lead fluoborate = Lead fluoroborate
Lead fluoroborate solution = Lead fluoroborate

Lead fluoroborate solution=Lead fluoroborateLead fluoroborate=Lead fluoroborateLead hyposulfite=Lead thiosulfateLead iodide=Lead iodide

Lead IV acetate Lead tetraacetate Lead monoxide Litharge Lead nitrate Lead nitrate Lead oxide yellow Litharge Lead protoxide Litharge = Lead stearate Lead stearate Lead sulfate Lead sulfate Lead sulfide = Lead sulfide Lead sulfocyanate

= Lead thiocyanate Lead tetraacetate = Lead tetraacetate Lead tetraethyl = Tetraethyl lead Lead tetramethyl Tetramethyl lead Lead thiocyanate Lead thiocyanate Lead thiosulfate Lead thiosulfate = Lead tungstate Lead tungstate Lead wolframate Lead tungstate Leaf lard Oils, edible: lard Diphenyl Lemonene

Levepox hardener T3 = Pentaethylenehexamine

Lichenic acid = Fumaric acid

Leucol

=

Quinoline

COMPOUND NAMES

Light naphtha Light naphtha Liaht oil

Limed wood rosin

Limonene Lindane

Linear alcohols

Linseed oil

Liquamon 28

Liquefied natural gas Liquefied petroleum gas

Liquefied phenol Liquid ammonia Liquid asphalt

Liquid asphalt

Liquid bleach Liquid camphor Liquid gum camphor Liquid hydrogen Liquid impure camphor

Liquid nitrogen Liquid oxygen

Liquid petrolatum

Litharge

Lithium aluminum hydride Lithium bichromate dihydrate

Lithium bichromate Lithium chromate Lithium dichromate Lithium hydride

Lithium LNG

Long-time burning oil

Lorol-22 Lorsban LOX LPG

Lubricating oil Lucidol Lumbrical

Lunar caustic Luperco JDB-50-T

Lve Lye Lye Lve

M-B-C fumigant

MAA MAAC

Macquer's salt

Magnesium dodecyl sulfate Magnesium lauryl sulfate Magnesium nitrate hexahydrate Naphtha: solvent Naphtha: VM & P

Oils, miscellaneous: coal tar

Calcium resinate

Dipentene

gamma-Benzene hexachloride

Linear alcohols

Oils, miscellaneous: linseed

Urea, ammonium nitrate soln (w/aqua

ammonia)

Liquefied natural gas Liquefied petroleum gas = Carbolic oil (mixture) Ammonia, anhydrous

Asphalt blending stocks: roofers flux

Oils, miscellaneous: road Sodium hypochlorite

Camphor oil Camphor oil = Hydrogen Camphor oil Nitrogen Oxygen

Oils, miscellaneous: mineral

Litharge

Lithium aluminum hydride

Lithium bichromate Lithium bichromate Lithium chromate Lithium bichromate = Lithium hydride

Lithium

Liquefied natural gas

Oils, miscellaneous: mineral seal

n-Decyl alcohol

Dursban Oxygen

Liquefied petroleum gas Oils, miscellaneous: motor

Dibenzoyl peroxide Piperazine

= Silver nitrate

= Cyclohexanone peroxide = Caustic potash solution Caustic soda solution Potassium hydroxide = Sodium hydroxide Methyl bromide

Methyl isobutyl carbinol Methyl amyl acetate Potassium arsenate

Dodecyl sulfate, magnesium salt = Dodecyl sulfate, magnesium salt =

Magnesium nitrate

COMPOUND NAMES

Magnesium nitrate
Magnesium perchlorate hexahydrate
Magnesium perchlorate, anhydrous

Magnesium perchlorate

Magnesium Malathion Malazide

Maleic acid hydrazide

Maleic acid
Maleic anhydride
Maleic hydrazide
Maleinic acid
Malenic acid
Malix
Malonic dinitrile

Malonic mononitrile Malononitrile MAOH MAOH

MAPP gas

Marlate 50 Marmer Marsh gas Marshite Massicot MCB

MCP MDEA MDI

Meadow green

Mediben MEK

MEKP Mendrin

Menite p-Mentha-1,8-diene

MEP

Mercaptobenzene Mercaptodimethur Mercaptoethane Mercaptomethane Mercurialin

Mercurialin Mercuric acetate

Mercuric oxide

Mercuric ammonium chloride Mercuric chloride, ammoniated

Mercuric chloride
Mercuric cyanide
Mercuric iodide, red
Mercuric iodide
Mercuric nitrate
Mercuric oxide, red
Mercuric oxide, yellow

Magnesium nitrate
 Magnesium perchlorate
 Magnesium perchlorate
 Magnesium perchlorate

MagnesiumMalathionMaleic hydrazide

Maleic hydrazide
Maleic acid
Maleic anhydride
Maleic hydrazide
Maleic acid
Maleic acid
Endosulfan
Propanedinitrile
Cyanoacetic acid
Propanedinitrile

Methyl amyl alcohol

Methyl isobutyl carbinol

Methyl acetylene, propadiene mixture

Methoxychlor
Diuron
Methane
Copper iodide
Litharge
Chlorobenzene
Calcium phosphate
Methyl diethanolamine

Diphenylmethane diisocyanate

= Copper acetoarsenite

Dicamba

Methyl ethyl ketone2-Butanone peroxide

= Endrin= Phosdrin= Dipentene

Methylethylpyridine
 Benzenethiol
 Mercaptodimethur
 Ethyl mercaptan
 Methyl mercaptan
 Methylamine

Methylamine solutionMercuric acetate

Mercuric ammonium chlorideMercuric ammonium chloride

Mercuric chloride
 Mercuric cyanide
 Mercuric iodide
 Mercuric iodide
 Mercuric nitrate
 Mercuric oxide
 Mercuric oxide
 Mercuric oxide

COMPOUND NAMES

Mercuric sulfate Mercuric sulfate Mercuric sulfide, black Mercuric sulfide Mercuric sulfide, red Mercuric sulfide Mercuric sulfide = Mercuric sulfide Mercuric sulfocyanate Mercuric thiocyanate Mercuric sulfocyanide Mercuric thiocyanate Mercuric thiocyanate Mercuric thiocyanate Mercurous chloride Mercurous chloride Mercurous nitrate monohydrate Mercurous nitrate

Mercurous nitrate monohydrate = Mercurous nitrate
Mercury (II) chloride = Mercuric chloride
Mercury (II) cyanide = Mercuric cyanide
Mercury (II) nitrate = Mercuric nitrate
Mercury (II) sulfate (1:1) = Mercuric sulfate

Mercury amide chloride = Mercuric ammonium chloride Mercury ammonium chloride = Mercuric ammonium chloride

Mercury bichloride = Mercuric chloride
Mercury biniodide = Mercuric iodide
Mercury bisulfate = Mercuric sulfate
Mercury cyanide = Mercuric cyanide
Mercury monochloride = Mercuric cyanide
Mercury nitrate monohydrate = Mercuric nitrate

Mercury oxide Mercuric oxide Mercury perchloride Mercuric chloride Mercury pernitrate Mercuric nitrate Mercury persulfate Mercuric sulfate Mercury protochloride Mercurous chloride Mercury protonitrate Mercurous nitrate Mercury rhodanide Mercuric thiocyanate Mercury subchloride Mercurous chloride =

Mercury Mercury Merex Kepone = Mesityl oxide Mesityl oxide Mesurol Mercaptodimethur Diethyl ketone Metacetone Metallic resinate Calcium resinate Metelilachlor Metolachlor Metelilachlor Metolachlor Methacetone Diethyl ketone Methacrylate monomer Methyl methacrylate

Methacrylic acid, 2, 3-epoxypropyl ester = Glycidyl methacrylate Methacrylic acid, butyl ester = n-Butyl methacrylate

Methacrylic acid, butyl, decyl, cetyl and = Butyl, decyl, cetyl-eicosyl methacrylate

eicosyl ester mix

Methacrylic acid, dodecyl and pentadecyl = Dodecyl/pentadecyl methacrylate

Methacrylic acid, dodecyl ester = Dodecylmethacrylate
Methacrylic acid, ethyl ester = Ethyl methacrylate
Methacrylic acid, isobutyl ester = Isobutyl methacrylate

ester mix

Methacrylic acid, lauryl and pentadecyl = Dodecyl/pentadecyl methacrylate

ester mix

Methacrylic acid, methyl ester = Methyl methacrylate
Methacrylic acid = Methacryloritrile

Methacrylonitrile

beta-Methallyl chloride Methallyl chloride Methanal solution Methanamide

Methane, isocyanato-Methane, tribromo-

Methane

Methanearsonic acid, sodium salt

Methaneethiol Methanethiomethane Methanoic acid, amide Methanoic acid

4,7-Methanoindene, 3a,4,7,7atetrahydrodimethyl

Methanol Metheneamine Methenyl tribromide

Methiocarb

Methionine hydroxy analog

Methmercapturon

2-Methoxy-2-methyl propane 1-Methoxy-2-propanol acetate

1-Methoxy-2-propanol

Methoxy DDT

o-Methoxybenzoic acid 3-Methoxybutyl acetate

Methoxychlor 2-Methoxyethanol

2-(2-Methoxyethoxy)-ethanol 2-Methoxyethyl acetate Bis-(2-Methoxyethyl)-ether

Methoxyethylene

2,2-bis-(p-Methoxyphenyl)-1,1,1trichloroethane

3-Methyl-1-butanol 3-Methyl-1-buten-3-ol 2-Methyl-1-butene-3-one

6-Methyl-1-heptanal 6-Methyl-1-heptanol 2-Methyl-1-pentene 4-Methyl-1-pentene

1-Methyl-1-phenylethylene 2-Methyl-1-propanol

2-Methyl-1-propyl acetate 1-Methyl-1 propylethylene 2-Methyl-1 3-butadiana

2-Methyl-1, 3-butadiene

Methyl-1,3-butylene glycol acetate 1-Methyl-2-(3-pyridyl)pyrrolidine

3-Methyl-2-butanone 2-Methyl-2-butynol

1-Methyl-2-chlorobenzene 1-Methyl-2-fluorobenzene

2-Methyl-2-hydroxy-3-butyne 1-Methyl-2-hydroxyethylamine

COMPOUND NAMES

Methallyl chlorideMethallyl chlorideFormaldehyde solution

FormamideMethyl isocyanate

BromoformMethane

= Methanearsonic acid, sodium salt

Methyl mercaptanDimethyl sulfideFormamideFormic acid

= Methylcyclopentadiene dimer

= Methyl alcohol

= Hexamethylenetetramine

= Bromoform

= Mercaptodimethur

= 2-Hydroxy-4-(methylthio)-butanoic acid

MercaptodimethurMethyl tert-butyl ether

Propylene glycol methyl ether acetate

Propylene glycol methyl ether

MethoxychlorMethyl salicylate3-Methoxybutyl acetate

= Methoxychlor

Ethylene glycol monomethyl ether
 Diethylene glycol monomethyl ether
 Ethylene glycol methyl ether acetate
 Diethylene glycol dimethyl ether

Vinyl methyl etherMethoxychlor

Isoamyl alcohol Methyl butenol

= Methyl isopropenyl ketone

Isooctaldehyde
Isooctyl alcohol
2-Methyl-1-pentene
4-Methyl-1-pentene
alpha-Methylstyrene
Isobutyl alcohol
Isobutyl acetate
2-Methyl-1-pentene

= Isoprene

= 3-Methoxybutyl acetate

= Nicotine

= 3-Methyl-2-butanone

= 2-Methyl-2-hydroxy-3-butyne

o-Chlorotoluene2-Fluorotoluene

= 2-Methyl-2-hydroxy-3-butyne

= 2-Propanolamine

COMPOUND NAMES

2-Methyl-2-methoxy propane Methyl tert-butyl ether 4-Methyl-2-pentanol acetate Methyl amyl acetate 4-Methyl-2-pentanol Methyl amyl alcohol 4-Methyl-2-pentanol Methyl isobutyl carbinol 4-Methyl-2-pentanone Methyl isobutyl ketone 4-Methyl-2-pentyl acetate Methyl amyl acetate 2-Methyl-2-propanol tert-Butyl alcohol 2-Methyl-2-propen-1-ol Methyl allyl alcohol 1-Methyl-2-pyrrolidinone 1-Methylpyrrolidone =

3-(1-Methyl-2-pyrrolidyl)pyridine = Nicotine

1-Methyl-2, 4-dinitrobenzene 2,4-Dinitrotoluene 2-Methyl-2,4-pentanediol Hexvlene alvcol 2-Methyl-3-buten-2-ol Methyl butenol = 2-Methyl-3-butyn-2-ol Methyl butynol 1-Methyl-3-fluorobenzene 3-Fluorotoluene Methyl-3-oxo-butyrate Methyl acetoacetate 4-Methyl-3-pentene-2-one Mesityl oxide 1-Methyl-4-isopropylbenzene p-Cymene

4-Methyl-4-pentene = 2-Methyl-1-pentene

1-Methyl-4-tert-butylbenzene = Butyl toluene

2-Methyl-6-ethyl aniline = 2-Methyl-6-ethyl aniline 2-Methyl-6-ethyl aniline = 2-Methyl-6-ethyl aniline

2-Methyl-6-methylene-2,7-octadiene = Myrcene

N-Methyl-alpha-pyrrolidone
3-Methyl-buten-(1)-ol(3) = Methyl butenol
Methyl-n-butanoate = Methyl butyrate
Methyl-n-butyrate = Methyl butyrate
p-Methyl-tert-butylbenzene = Butyl toluene
Methyl 2-methyl-2-propenoate = Methyl methacrylate

Methyl acetylene, propadiene mixture = Methyl acetylene, propadiene mixture

Methyl acrylate Methyl acrylate Methyl adipate Dimethyl adipate Methyl alcohol Methyl alcohol Methyl allyl alcohol Methyl allyl alcohol Methyl amyl acetate Methyl amyl acetate = Methyl amyl alcohol Methyl amyl alcohol Methyl amyl ketone n-Amyl methyl ketone =

alpha-Methyl benzene methanol = a-Methylbenzyl alcohol
Methyl benzenecarboxylate = Methyl benzoate
Methyl benzoate = Methyl benzoate
Methyl bromide = Methyl bromide
3-Methyl butan-2-one = 3-Methyl-2-butanone

Methyl butenol = S-Methyl butenol = Methyl butenol

Methyl butynol = 2-Methyl-2-hydroxy-3-butyne

Methyl butynol = Methyl butynol Methyl butyrate = Methyl butyrate

Methyl carbitol acetate = Diethylene glycol methyl ether acetate
Methyl carbitol = Diethylene glycol monomethyl ether

Methyl phosphite

COMPOUND NAMES

Methyl carbonimide = Methyl isocyanate

Methyl cellosolve acetate = Ethylene glycol methyl ether acetate

Methyl cellosolve = Ethylene glycol monomethyl ether

Methyl chloride = Methyl chloride

Methyl chloroacetate = Methyl chloroacetate

Methyl chlorocarbonate = Methyl chloroformate

Methyl chloroformate = Methyl chloroformate

Methyl chloromethyl ether, anhydrous = Chloromethyl methyl ether

Methyl cyanide = Acetonitrile

Methyl cyclopentane = Methyl cyclopentane

Methyl dichloroacetate = Methyl dichloroacetate

Methyl dichloroacetate = Methyl dichloroacetate

Methyl diethanolamine = Methyl diethanolamine

N-Methyl ethanolamine = Monomethyl ethanolamine

Methyl ether = Dimethyl ether
Methyl ethyl bromo-methane = 2-Bromobutane
Methyl ethyl ketone = Methyl ethyl ketone
Methyl formal = Methyl formal
Methyl formate = Methyl formate
Methyl heptyl ketone = Methyl heptyl ketone

Methyl iodide = Methyl iodide Methyl isobutenyl ketone = Mesityl oxide

Methyl isobutyl carbinol = Methyl isobutyl carbinol

Methyl isobutyl ketone = Methyl isobutyl ketone

Methyl isopropenyl ketone = Methyl isopropenyl ketone

Methyl isopropenyl ketone = Methyl isopropenyl ketone

Methyl isopropenyl ketone Methyl isopropenyl ketone = Methyl isopropyl ketone 3-Methyl-2-butanone = Methyl isothiocyanate Methyl isothiocyanate Methyl mercaptan Methyl mercaptan = Methyl methacrylate Methyl methacrylate = Methyl monochloroacetate Methyl chloroacetate Methyl mustard oil Methyl isothiocyanate = Methyl n-amyl ketone Methylamyl ketone

Methyl n-butyl ketone Methyl n-butyl ketone Methyl n-propyl ketone 2-Pentanone = 2-Methyl nitrobenzene o-Nitrotoluene Methyl nitrobenzene p-Nitrotoluene Methyl parathion Methyl parathion = 2-Methyl pentene-1 2-Methyl-1-pentene = Methyl pentyl ketone n-Amyl methyl ketone Methyl phenyl ketone Acetophenone =

Methyl phosphonothioic dichloride = Methyl phosphonothioic dichloride

=

Trimethyl phosphite

Methyl phthalate Dimethyl phthalate = 2-Methyl propenic acid Methacrylic acid Methyl propyl ketone = Methyl propyl ketone Methyl salicylate Methyl salicylate = Methyl sulfate Dimethyl sulfate Methyl sulfhydrate Methyl mercaptan Methyl sulfide Dimethyl sulfide Methyl sulfoxide Dimethyl sulfoxide Methyl tert-butyl ether Methyl tert-butyl ether =

Methyl thiram = Thiram
Methyl tribromide = Bromoform

COMPOUND NAMES

Methyl tuads Thiram

Methyl vinyl ether Vinyl methyl ether Methyl vinyl ketone Methyl vinyl ketone Methylacetic acid Propionic acid Methylacetic anhydride Propionic anhydride

Methylacetylene-allene mixture Methyl acetylene, propadiene mixture

beta-Methylacrolein Crotonaldehyde = alpha-Methylacrylic acid Methacrylic acid = 2-Methylacrylic acid Methacrylic acid = 2-Methylactonitrile Acetone cyanohydrin = Methyl formal Methylal

beta-Methylallyl chloride Methallyl chloride Methylamine solution Methylamine solution = Methylamine Methylamine

2-(Methylamino)ethanol Monomethyl ethanolamine

N-Methylaminobenzene N-Methylaniline Methylamyl alcohol Methyl isobutyl carbinol Methylamyl ketone Methylamyl ketone Methylaniline (mono) N-Methylaniline m-Methylaniline m-Toluidine 3-Methylaniline m-Toluidine

N-Methylaniline N-Methylaniline 2-Methylaniline o-Toluidine o-Methylaniline o-Toluidine p-Methylaniline p-Toluidine 4-Methylaniline p-Toluidine Propyleneimine 2-Methylaziridine =

Methylbenzene Toluene 3-Methylbenzeneamine m-Toluidine 4-Methylbenzeneamine p-Toluidine =

Methylbenzenesulfonic acid p-Toluenesulfonic acid

Methylbenzol Toluene =

a-Methylbenzyl alcohol a-Methylbenzyl alcohol

alpha-Methylbivinyl 1.3-Pentadiene beta-Methylbivinyl Isoprene 1-Methylbutadiene 1,3-Pentadiene 3-Methylbutanal Isovaleraldehyde 2-Methylbutane Isopentane = 3-Methylbutyl nitrite iso-Amyl nitrite = 3-Methylbutyraldehyde Isovaleraldehyde

Methylcarbamate Carbofuran = Methylchloroform Trichloroethane = Methylcyclohexane Methylcyclohexane = 2-Methylcyclohexanol 2-Methylcyclohexanol o-Methylcyclohexanone o-Methylcyclohexanone 2-Methylcyclohexanone = o-Methylcyclohexanone Methylcyclopentadiene dimer Methylcyclopentadiene dimer =

Methylcyclopentadienylmanganese Methylcyclopentadienylmanganese

tricarbonvl tricarbonyl Methyldichlorosilane Methyldichlorosilane

3-Methylene-7-methyl 1,6-octadiene Myrcene

Methylene bromide Dibromomethane = Methylene chloride Dichloromethane Methylene cyanide Propanedinitrile

COMPOUND NAMES

Methylene dibromide Methylene dichloride Methylene dimethyl ether Methylene tribromide

2,2-Methylene, bis[3,4,6-trichlorophenol]

bis-(1-Methylethyl)-benzene

bis-(1-Methylethyl) ester o-Methylethylbenzene Methylethylcarbinol 1-Methylethylcyclohexane Methylethylene glycol Methylethylene 2-Methylethyleneimine

Methylethylketone peroxide

Methylethylpyridine

Bis-(6-Methylheptyl) phthalate

Methylhydrazine

p-Methylhydroxybenzene

2,2'-Methyliminodiethanol Methylisobutylcarbinol

Methylisobutylcarbinyl acetate

Methylmethane

alpha-Methylnaphthalene 1-Methylnaphthalene 3-Methylnitrobenzene 4-Methylnitrobenzene Methyloxirane 2-Methylpentane Methylphenois m-Methylphenol 2-Methylphenol p-Methylphenol

Methylphenyl methanol Methylphenylamine

2-Methylpropanal 2-Methylpropane 2-Methylpropanenitrile 2-Methylpropanoic acid 2-Methylpropene

alpha-Methylpropionic acid 2-Methylpropionitrile

beta-Methylpropyl ethanoate N,N-bis(2-Methylpropyl)amine

Methylpropylbenzene 2-Methylpyridine alpha-Methylpyridine 3-Methylpyridine 4-Methylpyridine N-Methylpyrrolidinone N-Methylpyrrolidone 1-Methylpyrrolidone

alpha-Methylstyrene

p-Methylstyrene 4-(Methylsulfonyl)-2,6-dinitro

Dibromomethane Dichloromethane Methyl formal **Bromoform** Hexachlorophene =

Diisopropylbenzene (all isomers)

Isopropyl percarbonate

= 2-Ethyl toluene = sec-Butvl alcohol = Isopropyl cyclohexane = Propylene glycol Propylene Propyleneimine = = 2-Butanone peroxide = Methylethylpyridine Diisooctyl phthalate

Methylhydrazine

= p-Cresol

Methyl diethanolamine = Methyl amyl alcohol Methyl amyl acetate

Ethane

=

=

1-Methylnaphthalene 1-Methylnaphthalene = m-Nitrotoluene = p-Nitrotoluene = Propylene oxide = Isohexane Cresols = m-Cresol = o-Cresol p-Cresol

a-Methylbenzyl alcohol

N-Methylaniline = iso-butyraldehyde

Isobutane

Isobutvronitrile = Isobutyric acid = Isobutylene = Isobutyric acid Isobutyronitrile = Isobutyl acetate = Diisobutylamine = p-Cymene 2-Methylpyridine 2-Methylpyridine

3-Methylpyridine = 4-Methylpyridine 1-Methylpyrrolidone 1-Methylpyrrolidone 1-Methylpyrrolidone alpha-Methylstyrene =

Vinyl toluene = **Nitralin**

COMPOUND NAMES

Methyltrichlorosilane = Methyltrichlorosilane

Methylzinc=DimethylzincMetolachlor=MetolachlorMetron=Methyl parathionMethyl parathion=Dheedrin

Mevinphos = Phosdrin
Mexacarbate = Zectran
MFB = Fluorobenzene

MHA-FA = 2-Hydroxy-4-(methylthio)-butanoic acid MHA acid = 2-Hydroxy-4-(methylthio)-butanoic acid

Methyl isobutyl carbinol **MIBC MIBK** Methyl isobutyl ketone Methyl amyl alcohol MIC MIC Methyl isobutyl carbinol = MIC Methyl isocyanate Middle oil Carbolic oil (mixture) MIK Methyl isobutyl ketone Mild mercury chloride Mercurous chloride

Milk acid = Lactic acid

Milk white = Lead sulfate

Milocep = Metolachlor

Mineral carbon = Charcoal

Mineral colza oil = Oils, miscellaneous: mineral seal

Mineral spirits = Mineral spirits
Mipax = Dimethyl phthalate

Mirex = Mirex

Mitis green = Copper acetoarsenite

Mixed fertilizers = Ammonium nitrate-sulfate mixture

Mixed primary amyl nitrates = n-Amyl nitrate
Mixture of benzene, toluene, xylenes = Naphtha: coal tar
MMH = Methylhydrazine

Mohr's salt = Ferrous ammonium sulfate

Molybdenum trioxide = Molybdic trioxide
Molybdic acid (85%) = Ammonium molybdate
Molybdic anhydride = Molybdic trioxide
Molybdic trioxide = Molybdic trioxide

Mondur TDS = Toluene 2,4-diisocyanate

Mono-n-propylamine = n-Propylamine Mono PE = Pentaerythritol

Monoammonium orthophosphate = Ammonium phosphate

Monobromoacetone=BromoacetoneMonobromobenzene=BromobenzeneMonobromomethane=Methyl bromideMonocalcium phosphate monohydrate=Calcium phosphateMonochlorethane=Ethyl chlorideMonochlorethanoic acid, ethyl ester=Ethyl chloroacetate

Monochloroacetaldehyde = Chloroacetaldehyde Monochloroacetic acid, methyl ester = Methyl chloroacetate

Monochloroacetic acid = Chloroacetic acid
Monochloroacetic acid = Chloroacetic acid (80% or less)

COMPOUND NAMES

Monochlorotrifluoromethane = Monochlorotrifluoromethane

Monoethanolamine=MonoethanolamineMonoethylamine=EthylamineMonoethylene glycol=Ethylene glycolMonofluorobenzene=FluorobenzeneMonofluoroethylene=Vinyl fluoride

Monoglyme = Ethylene glycol dimethyl ether

Monoiodomethane = Methyl iodide Monoisobutylamine = Isobutylamine

Monoisopropanolamine = Monoisopropanolamine

Monoisopropylamine = Isopropylamine

Monomethyl ethanolamine = Monomethyl ethanolamine

Monomethylamine = Methylamine
Monomethylamine = Methylamine solution
Monomethylhydrazine = Methylhydrazine
Mononitrogen monoxide = Nitric oxide

Mononitrogen monoxide = Nitric oxide

Monosodium methane arsonate = Methanearsonic acid, sodium salt

Monosodium methyl arsonate = Methanearsonic acid, sodium salt

Monoxide = Carbon monoxide
Morpholine = Morpholine

Mortopal = Tetraethyl pyrophosphate
Moss green = Copper acetoarsenite

Motor oil = Oils, miscellaneous: lubricating

Motor spirit = Gasolines: automotive (<4.23g lead/gal)

Mouse-tox = Strychnine MPT = Methyl parathion

MPTD = Methyl phosphonothioic dichloride
MSMA = Methanearsonic acid, sodium salt
Multrathane M = Diphenylmethane diisocyanate

Muriatic acid = Hydrochloric acid
Myrcene = Myrcene
Myristic alcohol = Tetradecanol
Myristyl alcohol = Tetradecanol
NA 1760 (DOT) = Hexanoic acid

Nabam = Nabam

Nacap = Sodium 2-mercaptobenzothiazol solution Naccanol NR or SW = Dodecyl benzene sulfonic acid, sodium

salt

Nacconate 100 = Toluene 2,4-diisocyanate
Nacconate 300 = Diphenylmethane diisocyanate
Nacconol 988 A = Dodecylbenzenesulfonic acid

Nadone = Cyclohexanone

Naled = Naled

Naphtha: coal tar = Naphtha: coal tar Naphtha: solvent = Naphtha: solvent

Naphtha: stoddard solvent = Naphtha: stoddard solvent

Naphtha: VM & P

Naphtha

Naphtha

Naphthalene

Naphthalin

Naphthalene

Naphthalene

Naphthalene

Naphthane = Decahydronaphthalene Naphthenic acids = Naphthenic acids

1-Naphthyl n-methylcarbamate = Carbaryl

alpha-Naphthylamine = 1-Naphthylamine

COMPOUND NAMES

1-Naphthylamine = 1-Naphthylamine Naphtol as-kg = p-Toluidine

Napthalane = Decahydronaphthalene

Natural gas = Methane

Natural gasoline = Gasolines: casinghead

Naugatuck DO 14 = Propargite

NCI-C 54773 = Dimethyl hydrogen phosphite

NCI-C06155 Butyl chloride NCI-C06508 Benzyl acetate Tetranitromethane NCI - C55947 = 2,6-Dimethylaniline NCL-C56188 Necatorina Carbon tetrachloride Neo-fat 10 Decanoic acid Neo-fat 12-43 Lauric acid Neo-fat 8 Octanoic acid

Neodecanoic acid, vinyl ester = Vinyl neodecanoate Neodecanoic acid = Neodecanoic acid

Neofat 12 = Lauric acid
Neohexane = Neohexane

Neol = 2,2-Dimethylpropane-1,3-diol

Neopentanoic acid = Trimethylacetic acid

Neopentyl glycol = 2,2-Dimethylpropane-1,3-diol Neopentylene glycol = 2,2-Dimethylpropane-1,3-diol

Nerkol = Dichlorvos

Neutral ammonium chromate = Ammonium chromate
Neutral ammonium fluoride = Ammonium fluoride
Neutral anhydrous calcium hypochlorite = Calcium hypochlorite

Neutral verdigris = Copper acetate
NIA 12 40 = Ethion
NIA 5996 = Dichlobenil
Niagara 10242 = Carbofuran
Nialate = Ethion

Nickel (II) fluoborate = Nickel fluoroborate
Nickel acetate tetrahydrate = Nickel acetate
Nickel acetate = Nickel acetate

Nickel ammonium sulfate hexahydrate = Nickel ammonium sulfate Nickel ammonium sulfate = Nickel ammonium sulfate

Nickel bromide
Nickel bromide
Nickel bromide
Nickel carbonyl

Nickel carbonyl

Nickel chloride hexahydrate = Nickel chloride
Nickel chloride = Nickel chloride
Nickel cyanide
Nickel dihydroxide = Nickel hydroxide
Nickel fluoroborate solution = Nickel fluoroborate

Nickel fluoroborate=Nickel fluoroborateNickel formate dihydrate=Nickel formateNickel formate=Nickel formateNickel hydroxide=Nickel hydroxide

COMPOUND NAMES

Nickel nitrate hexahydrate Nickel nitrate Nickel nitrate Nickel nitrate Nickel sulfate Nickel sulfate Nickel tetracarbonyl Nickel carbonyl Nickel acetate Nickelous acetate Nickel hydroxide Nickelous hydroxide Nickelous sulfate Nickel sulfate = Nicotine sulfate Nicotine sulfate = **Nicotine Nicotine**

Niobe oil Methyl benzoate

Tetraethyl pyrophosphate **Nitos**

Nitralin Nitralin

Nitram Ammonium nitrate Nitran Methyl parathion o-Nitraniline 2-Nitroaniline Nitratine Sodium nitrate

Nitrex nitrogen solutions (non-pressure) Ammonium nitrate-urea solution

Nitric acid, aluminum salt Aluminum nitrate Nitric acid, iron(III) salt Ferric nitrate Nitric acid, lead II salt Lead nitrate Nitric acid, thallium (I) salt Thallium nitrate Nitric acid, thallous salt Thallium nitrate Nitric acid Nitric acid Nitric oxide Nitric oxide

Nitrilotriacetic acid and salts Nitrilotriacetic acid and salts

2-Nitroaniline 2-Nitroaniline o-Nitroaniline 2-Nitroaniline p-Nitroaniline 4-Nitroaniline 4-Nitroaniline 4-Nitroaniline Nitrobenzene Nitrobenzene Nitrobenzol Nitrobenzene Nitrocarbol = **Nitromethane** Nitrocellulose gum Collodion Nitrocellulose solution Collodion

o-Nitrochlorobenzene o-Chloronitrobenzene

Nitrochloroform Chloropicrin Nitroethane Nitroethane Nitrogen tetroxide Nitrogen dioxide = Nitric oxide Nitrogen monoxide Nitrogen peroxide Nitrogen tetroxide Nitrogen tetroxide Nitrogen tetroxide =

Nitrogen Nitrogen =

Magnesium nitrate Nitromagnesite = Nitromethane Nitromethane o-Nitrophenol 2-Nitrophenol 2-Nitrophenol 2-Nitrophenol 3-Nitrophenol 3-Nitrophenol = m-Nitrophenol 3-Nitrophenol p-Nitrophenol 4-Nitrophenol 4-Nitrophenol 4-Nitrophenol 1-Nitropropane 1-Nitropropane 2-Nitropropane 2-Nitropropane = sec-Nitropropane 2-Nitropropane = Nitrosyl chloride Nitrosyl chloride

COMPOUND NAMES

3-Nitrotoluene m-Nitrotoluene m-Nitrotoluene m-Nitrotoluene o-Nitrotoluene o-Nitrotoluene 2-Nitrotoluene o-Nitrotoluene p-Nitrotoluene p-Nitrotoluene 3-Nitrotoluol m-Nitrotoluene p-Nitrotoluene 4-Nitrotoluol Nitrotrichloromethane Chloropicrin Ethyl nitrite Nitrous ether Nitrous oxide Nitrous oxide No. 4 Oils, fuel: 4 No. 5 Oils, fuel: 5 No. 6 Oils, fuel: no. 6 Nonan-2-one Methyl heptyl ketone Nonane = Nonane

Nonane = Nonane
n-Nonane = Nonane
Nonanol acetate = Nonyl acetate
Nonanol = Nonanol
1-Nonanol = Nonanol

5-Nonanone = Di-n-butyl ketone 2-Nonanone = Methyl heptyl ketone

Nonene (non-linear) = Nonene

Nonene (nonlinear) = Propylene trimer 1-Nonene = 1-Nonene

1-Nonene = 1-Nonene Nonene = Nonene

Nonene = Propylene trimer
Nonyl acetate = Nonyl acetate
n-Nonyl acetate
Nonyl alcohol/pelargonic alcohol = Nonanol

Nonyl alcohol Nonanol = Nonylcarbinol n-Decyl alcohol 1-Nonylene 1-Nonene = n-Nonylethylene 1-Undecene Nonylphenol Nonviphenol S-Noranone Di-n-butyl ketone Normal lead acetate Lead acetate =

Normenthane = Isopropyl cyclohexane

Norvalamine = n-Butylamine 2-NP = 2-Nitropropane

NTA = Nitrilotriacetic acid and salts

NTM = Dimethyl phthalate Nuoplaz = Ditridecyl phthalate

Nux-vomica = Strychnine O,O-Diethyl O-(p-nitrophenyl) = Parathion

phosphorothioate
O,O[diethyl-o(and 5)-]2- = Demeton

(ethylthio)ethyl[phosphorothioate

Octa-klor = Chlordane 1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a- = Chlordane

hexahydro-4,7-methanoindene

Octachlorocamphene = Toxaphene Octadecanoic acid = Stearic acid cis-9-Octadecenoic acid = Oleic acid

COMPOUND NAMES

n-Octadecylic acid = Stearic acid 1,6-Octadiene, 7-methyl-3-methylene = Myrcene

1-Octanal = Octyl aldehydes

Octane = Octane
n-Octane = Octane
Octanoic acid = Octanoic acid
Octanol = Octanol
1-Octanol = Octanol

3-Octanone = Ethyl amyl ketone 1-Octene = 1-Octene n-Octoic acid = Octanoic acid Octoil = Dioctyl phthalate

Octycarbinol = Nonanol

n-Octyl-n-decyl phthalate = Octyl decyl phthalate Octyl acetate = 2-Ethylhexyl acetate

Octyl alcohol = Octanol

Octyl aldehyde = Ethylhexaldehyde
n-Octyl aldehyde = Octyl aldehydes
Octyl aldehydes = Octyl aldehydes
Octyl decyl phthalate = Octyl epoxy tallate

alpha-Octylene = 1-Octene Oil of bitter almond = Benzaldehyde

Oil of cashew nutshell = Oil, misc: cashew nut shell

Oil of mirbane = Nitrobenzene
Oil of Niobe = Methyl benzoate
Oil of vitriol = Sulfuric acid

Oil, misc: cashew nut shell = Oil, misc: cashew nut shell

Oil, misc: pine = Oil, misc: pine
Oils, edible: castor = Oils, edible: castor
Oils, edible: coconut = Oils, edible: coconut
Oils, edible: cottonseed = Oils, edible: cottonseed
Oils, edible: fish = Oils, edible: fish

Oils, edible: lard Oils. edible: lard Oils, edible: olive Oils, edible: olive Oils, edible: palm Oils, edible: palm Oils, edible: peanut Oils, edible: peanut Oils, edible: safflower Oils, edible: safflower = Oils, edible: soya bean Oils, edible: soya bean Oils, edible: tucum Oils, edible: tucum Oils, edible: vegetable Oils, edible: vegetable =

Oils, fuel: 1-D Oils, fuel: 1-D Oils, fuel: 2-D Oils, fuel: 2-D = Oils, fuel: 2 Oils, fuel: 2 Oils. fuel: 4 Oils, fuel: 4 Oils, fuel: 5 Oils, fuel: 5 = Oils, fuel: no. 1 Oils, fuel: no. 1 Oils, fuel: no. 6 Oils, fuel: no. 6

Oils, miscellaneous: absorption
Oils, miscellaneous: coal tar
Oils, miscellaneous: coal tar
Oils, miscellaneous: croton
Oils, miscellaneous: linseed
Oils, miscellaneous: linseed
Oils, miscellaneous: lubricating
Oils, miscellaneous: mineral seal

Oils, miscellaneous: lubricating
Oils, miscellaneous: mineral seal

COMPOUND NAMES

Oils, miscellaneous: mineral Oils, miscellaneous: mineral Oils, miscellaneous: motor Oils, miscellaneous: motor Oils, miscellaneous: neatsfoot Oils, miscellaneous: neatsfoot Oils, miscellaneous: penetrating Oils, miscellaneous: penetrating Oils, miscellaneous: range Oils, miscellaneous: range Oils, miscellaneous: resin Oils, miscellaneous: resin Oils, miscellaneous: road Oils, miscellaneous: road = Oils, miscellaneous: rosin Oils, miscellaneous: rosin = Oils, miscellaneous: sperm Oils, miscellaneous: sperm = Oils, miscellaneous: spindle Oils, miscellaneous: spindle = Oils, miscellaneous: spray Oils, miscellaneous: spray Oils, miscellaneous: tall Oils, miscellaneous: tall = Oils, miscellaneous: tanner's Oils, miscellaneous: tanner's = Oils, miscellaneous: transformer = Oils, miscellaneous: transformer Oils, miscellaneous: turbine = Oils, miscellaneous: turbine

Oils: clarified = Oils: clarified
Oils: crude = Oils: crude
Oils: diesel = Oils: diesel
Olefiant gas = Ethylene

Oleic acid, ammonium salt = Ammonium oleate

Oleic acid, potassium salt

Oleic acid, sodium salt

= Oleic acid, potassium salt

Oleic acid, sodium salt

Oleic acid = Oleic acid
Oleum abietis = Oil, misc: pine
Oleum = Oleum

Omal Trichlorophenol = Omite Propargite = ONA 2-Nitroaniline ONP 2-Nitrophenol Ontrack 8e Metolachlor = Orpiment Arsenic trisulfide Orthoarsenic acid Arsenic acid = Orthoboric acid Boric acid Orthocide Captan

Orthophosphoric acid = Phosphoric acid
Orthotitanic acid, tetrabutyl ester = Tetrabutyl titanate
3-Oxa-1, 5-pentanediol = Diethylene glycol

Oxacetic acid = Glyoxylic acid (50% or less)

Oxacyclopentadiene = Furan
Oxal = Glyoxal
Oxaldehyde = Glyoxal
Oxalic acid dinitrile = Cyanogen

Oxalic acid, diammonium salt = Ammonium oxalate
Oxalic acid, ferrous salt = Ferrous oxalate
Oxalic acid = Oxalic acid
Oxalonitrile = Cyanogen

Oxammonium sulfate = Hydroxylamine sulfate
Oxammonium = Hydroxylamine
2-Oxetanone = beta-Propiolactone

Oxidate LE = Methyl benzoate
Oxides of nitrogen = Nitrogen tetroxide
Oxirane = Ethylene oxide

Oxo octaldehyde = Isooctaldehyde Oxo octyl alcohol = Isooctyl alcohol

COMPOUND NAMES

3-Oxobutanoic acid methyl ester Methyl acetoacetate alpha-Oxodiphenylmethane Benzophenone alpha-Oxoditane Benzophenone

Oxoethanoic acid Glyoxylic acid (50% or less)

Caprolactam 2-Oxohexamethylenimine Furan Oxole Oxotridecyl alcohol Tridecanol 1,1'-[Oxybis(methylene)] bis benzene Dibenzyl ether = 2,2'-Oxybisethanol Diethylene glycol =

Oxygen Oxygen =

Dibenzoyl peroxide Oxylite

Oxyphenic acid Catechol

Oxytoluenes Cresols

Paint drier Copper naphthenate Painter's naphtha Naphtha: VM & P Palm butter Oils, edible: palm Palm fruit oil Oils, edible: palm Palm oil Oils, edible: palm Palm seed oil Oils, edible: tucum Phthalic anhydride PAN

Aluminum sulfate solution Paper maker's alum

PAPI

Polymethylene polyphenyl isocyanate

Paracetaldehyde Paraldehyde p-Dichlorobenzene Paradi =

Paradichlorobenzene p-Dichlorobenzene Paradow p-Dichlorobenzene Paraformaldehyde Paraformaldehyde Paraldehyde Paraldehyde

Paramoth p-Dichlorobenzene Paranaphthalene Anthracene Parathion-methyl Methyl parathion Parathion Parathion Paridol Methyl parathion Copper acetoarsenite Paris green Copper acetoarsenite Parrot green

Patent aluminum Aluminum sulfate Polychlorinated biphenyl **PCB**

Pentaerythritol PF = Isoamylacetate Pear oil Pear oil sec-Amyl acetate Pearl white Bismuth oxychloride = Penta-1,4-diene 1,4-Pentadiene Penta Pentachlorophenol =

Pentaborane Pentaborane (9)-Pentaboron nonahvdride Pentaborane Pentachloroethane Pentachloroethane Pentachlorophenol Pentachlorophenol

Pentachlorophenyl chloride o-Pentadecadienyl salicylic acid Oil. misc: cashew nut shell

Pentadecanol Linear alcohols Pentadecanol Pentadecanol 1-Pentadecanol Pentadecanol = Pentadecyl alcohol Pentadecanol = trans-Pentadiene-1,3 1,3-Pentadiene

Hexachlorobenzene

COMPOUND NAMES

cis-Pentadiene-1,3 = 1,3-Pentadiene 1,3-Pentadiene = 1,3-Pentadiene 1,4-Pentadiene = 1,4-Pentadiene Pentaerythrite = Pentaerythritol Pentaerythritol

Pentaethylene hexamine Pentaethylenehexamine Pentaethylenehexamine Pentaethylenehexamine Pentalin Pentachloroethane = Pentamethylene Cyclopentane Pentanal n-Valeraldehyde = Pentanal Valeraldehyde Pentane Pentane

1,5-Pentanedial = Glutaraldehyde solution

2,4-Pentanedione Acetylacetone 1-Pentanethiol n-Amyl mercaptan Pentanoic acid Pentanoic acid 1-Pentanol n-Amyl alcohol 2-Pentanone 2-Pentanone 3-Pentanone Diethyl ketone Methyl propyl ketone 2-Pentanone Pentaerythritol Pentek 1-Pentene 1-Pentene

tert-Pentyl acetate = tert-Amyl acetate

Pentyl acetates = Amyl acetate (all isomers)

Pentyl alcohol n-Amyl alcohol 1-Pentyl chloride n-Amyl chloride = Pentyl methyl ketone n-Amyl methyl ketone n-Pentyl propionate n-Pentyl propionate 2-Pentylacetate sec-Amyl acetate 2-Pentylbromide 2-Bromopentane = sec-Pentylcarbinol Ethyl butanol Pentylformic acid Hexanoic acid = Pentylsilicon trichloride n-Amvltrichlorosilane

Peracetic acid = Peracetic acid
Percarbamide = Urea peroxide
Perchloric acid solution = Perchloric acid
Perchloric acid = Perchloric acid
Perchlorobenzene = Hexachlorobutadiene

Perchlorocyclopentadiene = Hexachlorocyclopentadiene Perchlorodihomocubane = Mirex

Perchloroethane = Hexachloroethane
Perchloroethylene = Tetrachloroethylene
Perchloromethane = Carbon tetrachloride

Perchloromethyl mercaptan = Perchloromethyl mercaptan

Perchloromethyl mercaptan = Perchloromethyl mercapt Perclene = Tetrachloroethylene Perhydronapthalene = Decahydronaphthalene Peroxide = Tetrachloroethylene Peroxyacetic acid = Peracetic acid

Peroxydicarbonic acid, = Isopropyl percarbonate

Peroxydisulfuric acid, diammonium salt = Ammonium persulfate

Persian-insect powder = Pyrethrins Petrohol = Isopropyl alcohol

COMPOUND NAMES

Petrol = Gasolines: automotive (<4.23g lead/gal)

Petrolatum jelly = Petrolatum
Petrolatum = Petrolatum
Petroleum asphalt = Asphalt

Petroleum asphalt = Oils, miscellaneous: road
Petroleum distillate = Distillates: flashed feed stocks
Petroleum distillate = Distillates: straight run

Petroleum insulating oil = Oils, miscellaneous: transformer

Petroleum jelly = Petrolatum

Petroleum naphtha = Petroleum naphtha

Petroleum pitch = Asphalt blending stocks: straight run

residue

Petroleum residue = Asphalt blending stocks: straight run

residue

Petroleum solvent = Naphtha: solvent

Petroleum solvent = Naphtha: stoddard solvent

Petroleum solvent = Naphtha: VM & P
Petroleum solvent = Petroleum naphtha
Petroleum spirits = Mineral spirits

Petroleum tailings = Asphalt blending stocks: roofers flux

Petroleum wax = Waxes: paraffin
Petroleum = Oils: crude
Phellandrene = Dipentene
Phenachlor = Trichlorophenol
Phenacyl chloride = Chloroacetophenone

Phenador-X = Diphenyl Phenic acid = Phenol

Phenol, 2,4,6-trinitro-, ammonium salt = Ammonium picrate, wet

Phenol, o-chloro- = o-Chlorophenol Phenol, o-ethyl = Ethylphenol

Phenol, pentachloro-, sodium salt = Sodium pentachlorophenate

Phenol,2-chloro- = o-Chlorophenol

2-Phenoxyethanol = Ethylene glycol phenyl ether 1-Phenyl-1-xylyl ethane = 1-Phenyl-1-xylyl ethane

Phenyl bromide = Bromobenzene

Phenyl cellosolve = Ethylene glycol phenyl ether

Phenyl chloride = Chlorobenzene
Phenyl chloromethylketone = Chloroacetophenone
Phenyl ether = Diphenyl ether

a-Phenyl ethyl alcohol = a-Methylbenzyl alcohol Phenyl fluoride = Fluorobenzene

Phenyl hydroxide = Phenol
Phenyl mercaptan = Benzenethiol
Phenyl perchloryl = Hexachlorobenzene
Phenyl xylyl ethane = 1-Phenyl-1-xylyl ethane

Phenylamine = Aniline

N-Phenylaniline = Diphenylamine Phenylarsenic dichloride = Phenyldichloroarsine

Phenylbenzene = Diphenyl
Phenylcarbinol = Benzyl alcohol
Phenylcyanide = Benzonitrile
1-Phenyldecane = n-Decylbenzene

COMPOUND NAMES

Phenyldichloroarsine
1-Phenyldodecane
Phenylethane
1-Phenylethanol
1-Phenylethanone
Phenylethylene

Phenylhydrazine hydrochloride

Phenylhydrazine

Phenylhydrazinium chloride Phenylmercuric acetate

Phenylmethanol
Phenylmethyl acetate
Phenylmethyl alcohol
Phenylmethyl amine
Phenylmethyl carbinol

Phenylphosphine dichloride Phenylphosphine thiodichloride Phenylphosphonothioic dichloride Phenylphosphonous dichloride Phenylphosphorus dichloride

1-PhenylpropanePhenylpropylene1-Phenyltetradecane

Phenylthiol 1-Phenyltridecane 1-Phenylundecane

Phlorol Phosdrin Phosfene Phosgene

Phosphinic acid, ammonium salt Phosphonic acid, dimethyl ester Phosphoric acid triethyleneimide Phosphoric acid, tri-butyl ester Phosphoric acid, triethyl ester

Phosphoric acid, tris(2-methylphenyl)

ester

Phosphoric acid Phosphoric sulfide

Phosphorodichloridic acid, ethyl ester Phosphorothioic acid, O,O-diethyl-O-p-

Nitrophenyl ester

Phosphorous acid, triethyl ester

Phosphorous acid
Phosphorus bromide
Phosphorus oxychloride
Phosphorus pentasulfide
Phosphorus persulfide
Phosphorus tribromide
Phosphorus trichloride
Phosphorus, black
Phosphorus, red
Phosphorus, white
Phosphoryl chloride

PhenyldichloroarsineDodecylbenzeneEthylbenzene

a-Methylbenzyl alcohol

AcetophenoneStyrene

= Phenylhydrazine hydrochloride

= Phenylhydrazine

= Phenylhydrazine hydrochloride

= Phenylmercuric acetate

Benzyl alcoholBenzyl acetateBenzyl alcoholBenzylamine

= a-Methylbenzyl alcohol

Benzene phosphorus dichloride
 Benzene phosphorus thiodichloride
 Benzene phosphorus thiodichloride
 Benzene phosphorus dichloride
 Benzene phosphorus dichloride

n-Propylbenzene
alpha-Methylstyrene
Tetradecylbenzene
Benzenethiol
Tridecylbenzene
n-Undecylbenzene
Ethylphenol
Phosdrin

Phosdrin

Phosgene
 Ammonium hypophosphite
 Dimethyl hydrogen phosphite
 Tris(Aziridinyl)phosphine oxide

Tributyl phosphateTriethyl phosphate

= Tricresyl phosphate (>= 1% ortho

isomer)

Phosphoric acid

Phosphorus pentasulfideEthyl phosphorodichloridate

= Parathion

Triethyl phosphite
Trimethyl phosphite
Phosphorus tribromide
Phosphorus oxychloride
Phosphorus pentasulfide
Phosphorus pentasulfide
Phosphorus tribromide
Phosphorus trichloride
Phosphorus, black
Phosphorus, red
Phosphorus, white
Phosphorus oxychloride

4-Picoline

COMPOUND NAMES

Photophor = Calcium phosphide

PHPH = Diphenyl Phthalandione = Phthalic anhydride

Phthalandione : Phthalic acid anhydride :

Phthalic acid anhydride = Phthalic anhydride Phthalic acid, benzyl butyl ether = Butyl benzyl phthalate

Phthalic acid, bis-(2-ethylhexyl ester) = Di-(2-ethylhexyl)phthalate
Phthalic acid, bis-(7-methyloctyl) ester = Diisononyl phthalate
Phthalic acid, bis (2-ethylhexyl ester) = Dioctyl phthalate

Phthalic acid, bis (2-ethylhexyl ester) = Dioctyl phthalate
Phthalic acid, bis (8-methyl-nonyl) ester = Diisodecyl phthalate

Phthalic acid, di-isobutyl ester Diisobutyl phthalate Phthalic acid, diamyl ester Amyl phthalate Phthalic acid. diamvl ester Di-n-amvl phthalate Phthalic acid, dibutyl ester Dibutyl phthalate Phthalic acid, diethyl ester Diethyl phthalate Phthalic acid, diheptyl ester Diheptyl phthalate Phthalic acid, diisodecyl ester Diisodecyl phthalate Phthalic acid, dinonyl ester Dinonyl phthalate Phthalic acid, dipentyl ester Amyl phthalate Phthalic acid, dipentyl ester Di-n-amyl phthalate =

Phthalic acid, ditridecyl ester = Ditridecyl phthalate
Phthalic acid, diundecyl ester = Diundecyl phthalate
m-Phthalic acid = Isophthalic acid

Phthalic anhydride = Phthalic anhydride Phygon-XL = Dichlone Phygon = Dichlone

Phytar Sodium cacodylate Picfume Chloropicrin Picoline 2-Methylpyridine 2-Picoline 2-Methylpyridine alpha-Picoline 2-Methylpyridine 3-Methylpyridine 3-Picoline m-Picoline 3-Methylpyridine b-Picoline 3-Methylpyridine gamma-Picoline 4-Methylpyridine p-Picoline 4-Methylpyridine

Pigment white 3=Lead sulfatePimelic ketone=Cyclohexanonealpha-Pinene=Pinene2-Pinene=PinenePinene=PinenePiperazidine=Piperazine

1-Piperazine ethanamine = N-Aminoethyl piperazine

Piperazine = Piperazine
Piperylene = 1,3-Pentadiene
Pivalic acid = Trimethylacetic acid

Planavin = Nitralin

Plant spray oil = Oils, miscellaneous: spray
Plastic latex = Latex, liquid synthetic
Plasticized DDP = Diisodecyl phthalate
Plumbous arsenate = Lead arsenate
Plumbous chloride = Lead chloride
Plumbous fluoride = Lead fluoride

Plumbous oxide = Litharge

4-Methylpyridine

COMPOUND NAMES

Lead sulfide

Plumbous sulfide

Pluracol polyol Polypropylene glycol **PNA** 4-Nitroaniline **PNP** 4-Nitrophenol

Diethylene glycol monobutyl ether Poly-solv DB Poly-solv DE Diethylene glycol monoethyl ether Poly-solv DM, Diethylene glycol monomethyl ether Ethylene glycol monobutyl ether Poly-solv EB =

2-Ethoxyethyl acetate Poly-solv EE acetate =

= Ethylene glycol monoethyl ether acetate Poly-solv EE acetate

Poly-solv EE 2-Ethoxyethanol

Ethylene glycol monoethyl ether Poly-solv EE Poly-solv EM Ethylene glycol monomethyl ether

Poly (oxyethyl) dodecyl ether Ethoxylated dodecanol Poly (oxyethyl) lauryl ether Ethoxylated dodecanol

Poly (propylene glycol) methyl ether Polypropylene glycol methyl ether Poly solv Diethylene glycol dimethyl ether

Poly(dimethylsiloxane) Dimethylpolysiloxane Poly(ethyleneimine) Polyethylene polyamines = Poly(oxyethyl) myristyl ether Ethoxylated tetradecanol Poly(oxyethyl) pentadecyl ether Ethoxylated pentadecanol = Poly(oxyethyl) tetradecyl ether Ethoxylated tetradecanol Poly(oxyethyl) tridecyl ether Ethoxylated tridecanol

Polvbutene Polvbutene =

Polychlorinated biphenyl Polychlorinated biphenyl = Polychloropolyphenyls Polychlorinated biphenyl Polycizer 962-BPA Ditridecyl phthalate = Polyethylene polyamines Polyethylene polyamines Polyethyleneimine Polyethylene polyamines Polyformaldehyde Paraformaldehyde = Polyisobutylene plastics Polybutene

Polyisobutylene resins = Polybutene Polvisobutvlene waxes Polybutene

Polymethylene polyphenyl isocyanate Polymethylene polyphenyl isocyanate Polyoxpropylene glycol Polypropylene glycol Polyoxymethylene glycol Paraformaldehyde

Polyoxymethylene Polypropylene glycol methyl ether Polyoxypropylene glycol methyl ether

Paraformaldehyde

Polyoxypropylene glycol Polypropylene glycol = Polyphosphoric acid Polyphosphoric acid

Polypropylene glycol methyl ether Polypropylene glycol methyl ether =

Polypropylene glycol Polypropylene glycol = Polypropylene glycols P400 to P4000 Polypropylene glycol =

Polypropylene Polypropylene Potash nitrate Potassium nitrate Potash soap Potassium oleate

Potassium acid arsenate Potassium arsenate Potassium acid oxalate Potassium binoxalate Potassium antimonyl tartrate Antimony potassium tartrate

Potassium arsenate Potassium arsenate Potassium arsenite Potassium arsenite Potassium bichromate Potassium dichromate Potassium binoxalate Potassium binoxalate = Potassium chlorate = Potassium chlorate

COMPOUND NAMES

Potassium chromate (VI) = Potassium chromate
Potassium chromate = Potassium chromate
Potassium cyanide = Potassium cyanide

Potassium dichloro-s-triazinetrione = Potassium dichloro-s-triazinetrione Potassium dichloro-s-triazinetrione = Potassium dichloro-s-triazinetrione

Potassium dichromate = Potassium dichromate
Potassium dihydrogen arsenate = Potassium arsenate

Potassium fluozirconate = Zirconium potassium flouride
Potassium hexaflourozirconate = Zirconium potassium flouride
Potassium hydroxide solution = Caustic potash solution
Potassium hydroxide = Potassium hydroxide
Potassium iodide = Potassium iodide

Potassium notate

Potassium metaarsenite

Potassium nitrate

Potassium nitrate

Potassium nitrate

Potassium nitrate

Potassium oleate = Oleic acid, potassium salt Potassium oleate = Potassium oleate

Potassium oxalate monohydrate = Potassium oxalate
Potassium oxalate = Potassium oxalate

Potassium permanganate = Potassium permanganate
Potassium peroxide = Potassium peroxide
Potassium superoxide = Potassium peroxide
Potassium zinc chromate = Zinc potassium chromate
Potassium zirconium fluoride = Zirconium potassium flouride

Potassium = Potassium
Potato spirit oil = Isoamyl alcohol
Potcrate = Potassium chlorate

Preservative oil = Oils, miscellaneous: penetrating

Primagram = Metolachlor
Prime steam lard = Oils, edible: lard
Primextra = Metolachlor
= Metolachlor
o-Isopropyl phenol

Propadiene-methylacetylene mixture = Methyl acetylene, propadiene mixture

Propanal = Propionaldehyde 1-Propanamine, 2-methyl-N-(2-methyl = Diisobutylamine

propyl)-

Propane-1-thiol = n-Propyl mercaptan
Propane-2-carboxylic acid = Isobutyric acid
Propane-2-thiol = Isopropyl mercaptan

Propane-2-thiol = Isopropyl mercaptan Propane-butane-(propylene) = Liquefied petroleum gas

Propane, 1-nitro- = 1-Nitropropane
Propane, 1,2,3-trichloro = 1,2,3-Trichloropropane
Propane, chloro- = n-Propyl chloride

Propane,1,1-dichloroPropane
Propane
Propanecarboxvlic acid
= 1,1-Dichloropropane
= Propane
= n-Butvric acid

Propanedinitrile = Propanedinitrile 1,2-Propanediol-1-acrylate = Hydroxypropyl acrylate 1,2-Propanediol 1-methacrylate = Hydroxypropyl methacrylate 1,3-Propanediol, 2,2-dimethyl = 2,2-Dimethylpropane-1,3-diol

1,2-Propanediol = Propylene glycol Propanenitrile, 2-hyrodxy-2-methyl = Acetone cyanohydrin

Propanenitrile = Propionitrile
2-Propanethiol = Isopropyl mercaptan
1-Propanethiol = n-Propyl mercaptan

COMPOUND NAMES

1,2,3-Propanetriol = Glycerine

n-Butyl propionate Propanoic acid butyl ester Propanoic acid. 2-chloro-2-Chloropropionic acid Propanoic acid, 2,2-di-methyl-Trimethylacetic acid Propanoic acid, ethyl ester Ethyl propionate = Propanoic acid Propionic acid Propanoic anhydride Propionic anhydride = 2-Propanol 1,1',1"-nitrilotri-Triisopropanolamine

2-Propanol 1,1',1"-nitrilotri- = Triisopropanolamin 1-Propanol, 2-amino- = 2-Propanolamine

1-Propanol, 2-amino-2-methyl- = 2-Amino-2-methyl-1-propanol (90% or

less)

Propanol, 3-(3-(3-methoxy = Tripropylene glycol methyl ether

propoxy)propoxy)-

1-Propanol, 3-amino n-Propanolamine 2-Propanol = Isopropyl alcohol 1-Propanol n-Propyl alcohol 2-Propanolamine 2-Propanolamine n-Propanolamine = n-Propanolamine 3-Propanolamine n-Propanolamine = Propanolide beta-Propiolactone

2-Propanone = Acetone
Propargil = Propargite
Propargite = Propargite

Propargyl alcohol = Propargyl alcohol 2-Propen-1-ol = Allyl alcohol

2-Propenal = Acrolein Propenamide (50%) = Acrylamide solution

Propene polymer = Polypropylene 1-Propene, 2-methyl trimer = Triisobutylene

Propene, trimer = Propylene trimer

Propene = Propylene 2-Propenenitrile, 2-methyl = Methacrylo

2-Propenenitrile, 2-methyl = Methacrylonitrile Propeneoxide = Propylene oxide Propenionic acid, 2-Methylene = Methacrylic acid

Propenionic acid, 2-Methylene = Methacrylic acid
2-Propenoic acid, decyl ester = n-Decyl acrylate
Propenoic acid = Acrylic acid
beta-Propiolactone = beta-Propiolactone
Propiolic alcohol = Proparatyl alcohol

Propiolic alcohol = Propargyl alcohol
Propionaldehyde = Propionaldehyde
Propione = Diethyl ketone
Propionic acid butyl ester = n-Butyl propionate
Propionic acid, 2-chloro- = 2-Chloropropionic acid

Propionic acid, 3-chloro- = 3-Chloropropionic acid Propionic acid. 3-ethoxyethyl ester = Ethyl-3-ethoxypropionate

Propionic acid = Propionic acid
Propionic aldehyde = Propionic anhydride
Propionic anhydride = Propionic anhydride

Propionic nitrile = Propionitrile Propionitrile = Propionitrile

beta-Propionolactone = beta-Propiolactone
Propionyl oxide = Propionic anhydride
n-Propoxypropanol = n-Propoxypropanol
N-Propyl-1-propanamine = Di-n-propylamine

COMPOUND NAMES

2-Propyl acetate Isopropyl acetate n-Propyl acetate n-Propyl acetate sec-Propvl alcohol Isopropyl alcohol n-Propyl alcohol n-Propyl alcohol Propyl alcohol n-Propyl alcohol Propyl aldehyde Propionaldehyde n-Propyl chloride n-Propyl chloride = Propyl cyanide Butyronitrile = n-Propyl ether n-Propyl ether = n-Propyl mercaptan n-Propyl mercaptan = n-Propyl nitrate n-Propyl nitrate iso-Propylamine Isopropylamine = 1-Propylamine n-Propylamine = n-Propylamine n-Propylamine = n-Propylbenzene = n-Propylbenzene Propylbromide 1-Bromopropane n-Propylbromide 1-Bromopropane n-Propylcarbinol = n-Butyl alcohol n-Propylcarbinyl chloride Butyl chloride =

Propylene butylene polymer = Propylene butylene polymer Propylene dichloride = 1,2-Dichloropropane

Propylene glycol ethyl ether = Propylene glycol ethyl ether

Propylene glycol methyl ether acetate = Propylene glycol methyl ether acetate

Propylene glycol methyl ether = Propylene glycol methyl ether Propylene glycol monoacrylate = Hydroxypropyl acrylate Propylene glycol monomethacrylate = Hydroxypropyl methacrylate

Propylene glycol = Propylene glycol Propylene oxide = Propylene oxide Propylene tetramer = Dodecene

Propylene tetramer = Propylene tetramer

Propylene trimer = Nonene

Propylene trimer Propylene trimer = Propylene Propvlene Propyleneimine Propyleneimine 1-Pentene Propylethylene = Propylic aldehyde Propionaldehyde Propylidene chloride 1,1-Dichloropropane Propargyl alcohol 2-Propyn-1-ol = 1-Propyne-3-ol Propargyl alcohol = Propynyl alcohol Propargyl alcohol Prussic acid Hydrogen cyanide = Pseudocumene 1,2,4-Trimethylbenzene

Psicumene = 1,2,4-Trimethylbenzene Pyranol 1478 = 1,2,3-Trichlorobenzene

Pyrazine hexahydride = Piperazine

Pseudocumol

Pyrethrins = Pyrethrins
Pyrethrum flowers = Pyrethrins
4-Pyridinamine = 4-Aminopyridine
Pyridine, 3-methyl = 3-Methylpyridine

Pyridine = Pyridine

4-Pyridylamine = 4-Aminopyridine

=

1,2,4-Trimethylbenzene

COMPOUND NAMES

Pvrocatechin Catechol Pyrocatechinic acid Catechol

Pvrofax Liquefied petroleum gas

Pyrogallic acid Pyrogallic acid Pyrogallol Pyrogallic acid Pyrogentisic acid Hydroquinone Pyromucic aldehyde **Furfural** Pyroxylic spirit Methyl alcohol Pyroxylin solution Collodion Quakeral Furfural Quicklime Calcium oxide Quicksilver Mercurv Quinol Hydroquinone = Quinoline Quinoline Quinone p-Benzoquinone

R-124 Monochlorotetrafluoroethane R-21 Dichloromonofluoromethane

Racemic lactic acid Lactic acid Range oil Jet fuels: JP-1 Range oil Kerosene Range oil Oils, fuel: no. 1 Raspite Lead tungstate Thallium sulfate Ratox

Raw linseed oil Oils, miscellaneous: linseed

RC plasticizer DBP Dibutyl phthalate = RCRA waste number U152 Methacrylonitrile = Arsenic disulfide Realgar Red arsenic glass Arsenic disulfide Red arsenic sulfide Arsenic disulfide Red oil Oleic acid =

Red orpiment Arsenic disulfide Red oxide of nitrogen Nitrogen tetroxide = Red TR base 4-Chloro-o-toluidine Refrigerant 114 Dichlorotetrafluoroethane

Refrigerant 152A 1.1-Difluoroethane

Refrigerant 21 Dichloromonofluoromethane

Regalon Diguat = Regione Diquat =

Regulox Maleic hydrazide = Reofos 95 Trixylenyl phosphate

Residual asphalt Asphalt blending stocks: straight run

residue

Residual fuel oil Oils, fuel: 4 Residual fuel oil Oils, fuel: 5 Oils. fuel: no. 6 Residual fuel oil

Asphalt blending stocks: roofers flux Residual oil

Resin oil Oils, miscellaneous: rosin

Resorcinol Resorcin Resorcinol Resorcinol Retarder W Salicylic acid

Oils, miscellaneous: resin Retinol Oils, miscellaneous: rosin Retinol = Sodium thiocyanate Rhodanate =

Sodium thiocyanate solution (56% or Rhodanate

COMPOUND NAMES

less)

Road binder Asphalt blending stocks: straight run

residue

Road oil Asphalt blending stocks: roofers flux

Ethylene glycol phenyl ether Rose ether Oils, miscellaneous: resin Rosin oil Rosinol Oils, miscellaneous: resin Rosinol Oils, miscellaneous: rosin

Rubbing alcohol Isopropyl alcohol Ruby arsenic Arsenic disulfide

Saccharose Sucrose Saccharum Sucrose Safflower oil Oils, edible: safflower

Safflower seed oil Oils, edible: safflower Sal acetosella Potassium binoxalate Sal ammoniac Ammonium chloride Sal volatile Ammonium carbonate Salicylal Salicylaldehyde Salicylaldehyde Salicylaldehyde Salicylic acid Salicylic acid Salicylic aldehyde Salicylaldehyde

Salmiac Ammonium chloride Salt of Saturn Lead acetate

Salt of sorrel Potassium binoxalate Saltpeter Potassium nitrate Salufer Sodium silicofluoride Sand acid Fluosilicic acid Santicizer 711 Diundecyl phthalate Santochlor p-Dichlorobenzene Santophen 20 Pentachlorophenol =

Saralex Diazinon

Scheele's green Copper arsenite Scheelite Lead tungstate

Schweinfurth green Copper acetoarsenite 1,2-Dimethylhydrazine **SDMH** =

Asphalt blending stocks: straight run Seal-coating material

residue

Secondary ammonium phosphate Ammonium phosphate =

Selenic anhydride

Selenium trioxide Selenious acid, disodium salt Sodium selenite

Selenious anhydride Selenium dioxide Selenium dioxide Selenium dioxide Selenium oxide Selenium dioxide Selenium trioxide Selenium trioxide Senarmontite Antimony trioxide Sentry Calcium hypochlorite

Sevin Carbaryl =

Sextone B Methylcyclohexane Cyclohexanone Sextone Shell charcoal Charcoal

Signal oil Oils, miscellaneous: mineral seal

Silibond Ethyl silicate = Silicochloroform Trichlorosilane = Silicofluoric acid Fluosilicic acid

Silvex, isooctvl ester

Sodium bifluoride

COMPOUND NAMES

Silicon chloride Silicon tetrachloride Silicon tetrachloride Silicon tetrachloride Silicone fluids Dimethylpolysiloxane Silver acetate Silver acetate Silver carbonate Silver carbonate Silver fluoride Silver fluoride Silver iodate Silver iodate Silver fluoride Silver monofluoride Silver nitrate Silver nitrate Silver oxide Silver oxide Silver sulfate Silver sulfate

Silvex = 2-(2,4,5-Trichlorophenoxy) propanoic

acid

IsooctvI ester

Silvisar 510 = Cacodylic acid

SKDN = White spirit (low (15-20%) aromatic)

Slaked lime = Calcium hydroxide
Slow curing asphalt = Oils, miscellaneous: road
Smithsonite = Zinc carbonate

Smithsonite = Zinc carbonate
Soap = Ammonium stearate
Soda chloric acid, sodium salt = Sodium chlorate solution

Soda niter = Sodium nitrate Sodamide = Sodium amide

Sodium 2-benzothiazolethioate = Sodium 2-mercaptobenzothiazol solution Sodium 2-mercaptobenzothiazol solution = Sodium 2-mercaptobenzothiazol solution

Sodium acid pyrophosphate = Sodium phosphate
Sodium acid sulfite = Sodium bisulfite
Sodium alkyl sulfates = Sodium alkyl sulfates

Sodium alkylbenzenesulfonates = Sodium alkylbenzenesulfonates

Sodium aluminate solution (45% or less) = Sodium aluminate solution (45% or less)

Sodium amide = Sodium amide
Sodium arsenate, dibasic = Sodium arsenate
Sodium arsenate = Sodium arsenate
Sodium arsenite = Sodium arsenite
Sodium azide = Sodium azide
Sodium biborate = Sodium borate
Sodium bichromate = Sodium dichromate

Sodium bisulfide = Sodium hydrosulfide solution

Sodium bisulfite solution = Sodium hydrogen sulfite solution (35% or

less)

Sodium bifluoride

Sodium bisulfite=Sodium bisulfiteSodium borate=Sodium borateSodium borohydride=Sodium borohydrideSodium cacodylate=Sodium cacodylate

Sodium cetyl sulfate solution = Hexadecyl sulfate, sodium salt Sodium chlorate solution = Sodium chlorate solution

Sodium chlorate = Sodium chlorate
Sodium chromate (VI) = Sodium chromate
Sodium chromate = Sodium chromate
Sodium cyanide = Sodium cyanide

Sodium dichloro-s-triazinetrione = Sodium dichloro-s-triazinetrione Sodium dichloroisocyanurate = Sodium dichloro-s-triazinetrione

Sodium dichromate = Sodium dichromate

COMPOUND NAMES

Sodium difluoride Sodium bifluoride Sodium dimethylarsenate Sodium cacodylate

Dodecyl sulfate, sodium salt Sodium dodecvl sulfate

Sodium dodecylbenzene sulfonate Dodecyl benzene sulfonic acid, sodium

salt

less)

Sodium ferrocyanide Sodium ferrocyanide Sodium fluoride Sodium fluoride Sodium fluoroacetate Sodium fluoroacetate Sodium fluosilicate Sodium silicofluoride Sodium hexafluorosilicate Sodium silicofluoride Sodium hydride Sodium hydride Sodium hydrogen alkyl sulfate Sodium alkvl sulfates Sodium bifluoride Sodium hydrogen difluoride Sodium hydrogen fluoride Sodium bifluoride

Sodium hydrogen sulfide Sodium hydrosulfide solution

Sodium hydrogen sulfite solution (35% or Sodium hydrogen sulfite solution (35% or

less)

Sodium hydrosulfide solution Sodium hydrosulfide solution Sodium hydroxide solution Caustic soda solution Sodium hydroxide solution Sodium hydroxide solution Sodium hydroxide Sodium hydroxide

Sodium hypochlorite solution Sodium hypochlorite solution

Sodium hypochlorite Sodium hypochlorite

Sodium lauryl sulfate Dodecyl sulfate, sodium salt

Sodium meta arsenite Sodium arsenite Sodium metabisulfite Sodium bisulfite Sodium methoxide Sodium methylate Sodium methylate Sodium methylate Sodium monofluoroacetate Sodium fluoroacetate Sodium nitrate Sodium nitrate

Sodium nitrite liquor Sodium nitrite solution Sodium nitrite solution Sodium nitrite solution

Sodium nitrite Sodium nitrite

Sodium oleate Oleic acid. sodium salt Sodium ortho arsenite Sodium arsenite Sodium oxalate Sodium oxalate

Sodium pentachlorophenate Sodium pentachlorophenate

Sodium phosphate dibasic Sodium phosphate Sodium phosphate, monobasic Sodium phosphate Sodium phosphate, tribasic Sodium phosphate

Sodium phosphate, tribasic Sodium phosphate, tribasic

Sodium phosphate Sodium phosphate Sodium pyroborate Sodium borate Sodium pyrosulfite Sodium bisulfite Sodium rhodanide Sodium thiocvanate

Sodium rhodanide Sodium thiocyanate solution (56% or

less)

Sodium selenite Sodium selenite Sodium silicate Sodium silicate Sodium silicofluoride Sodium silicofluoride

Sodium sulfhydrate Sodium hydrosulfide solution

Sodium sulfide Sodium sulfide Sodium sulfite Sodium sulfite Sodium sulfocyanate Sodium thiocyanate

COMPOUND NAMES

Sodium sulfocyanate = Sodium thiocyanate solution (56% or less)

Sodium tetraborate, anhydrous = Sodium borate

Sodium thiocyanate solution (56% or less) = Sodium thiocyanate solution (56% or less)

less) anate = Sodium thiocyanate

Sodium thiocyanate = Sodium Sodium = Sodium

Solar nitrogen solutions = Ammonium nitrate-urea solution

Soluble glass = Sodium silicate
Solvarone = Dimethyl phthalate

Sorbit = Sorbitol
Sorbitol = Sorbitol
Sorbol = Sorbitol

Soybean oil = Oils, edible: soya bean

Spectracide = Diazinon
Spirit of ether nitrite = Ethyl nitrite
Spirit of turpentine = Turpentine

Spotting naphtha = Naphtha: stoddard solvent

Staflex DTDP = Ditridecyl phthalate Stannous flouride = Stannous flouride

Steam turbine lube oil = Oils, miscellaneous: turbine Steam turbine oil = Oils, miscellaneous: turbine

Stearic acid, ammonium salt = Ammonium stearate
Stearic acid, lead salt = Lead stearate
Stearic acid = Stearic acid
Stearophanic acid = Stearic acid

Stearyl alcohol, crude = Tallow fatty alcohol

Stearyldimethylbenzylammonium = Benzyldimethyloctadecylammonium

chloride chloride
Steinbuhl yellow = Calcium chromate
Stolzite = Lead tungstate

Straight run gasoline = Distillates: straight run
Strontium chromate = Strontium chromate
Strontium nitrate = Strontium nitrate
Strontium yellow = Strontium chromate

Strychnine = Strychnine

Styrallyl alcohol = a-Methylbenzyl alcohol

Styrene=StyreneStyrol=StyreneStyrolene=StyreneSucrose=SucroseSugar of lead=Lead acetateSugar=Sucrose

Sulfamic acid, cobalt salt = Cobalt sulfamate
Sulfamic acid. monoammonium salt = Ammonium sulfamate

Sulfate of copper = Copper sulfate
Sulfate turpentine = Turpentine

Sulfated neatsfoot oil = Oils, miscellaneous: tanner's

Sulfolane-W = Sulfolane
Sulfolane = Sulfolane

Sulfonated alkylbenzene, sodium salt = Sodium alkylbenzenesulfonates Sulfotep = Tetraethyl dithiopyrophosphate

Sulfur dioxide = Sulfur dioxide
Sulfur monochloride = Sulfur monochloride

Telone

Telone

COMPOUND NAMES

Sulfur Sulfur Sulfuretted hydrogen Hydrogen sulfide Sulfuric acid, chromium (3#I+) salt (3-2) Chromic sulfate Sulfuric acid, diethyl ester Diethyl sulfate Sulfuric acid, spent Sulfuric acid, spent Sulfuric acid, thallium salt Thallium sulfate Sulfuric acid Sulfuric acid Chlorosulfonic acid Sulfuric chlorhydrin Sulfuryl chloride Sulfuryl chloride = Thiocarbamide Sulourea = Sulphuretted hydrogen Hydrogen sulfide Superoxol Hydrogen peroxide = Swedish green Copper arsenite = Sweet birch oil Methyl salicylate Sweet spirit of nitre Ethyl nitrite Synthetic rubber latex Latex, liquid synthetic Systox and isosystox mixture Demeton 2,4,5-T esters = 2,4,5-T esters 2,4,5-T sodium salt 2,4,5-Trichlorophenoxyacetic acid, sodium salt T.E.P. Tetraethyl pyrophosphate T.E.P.P. Tetraethyl pyrophosphate 2,4,5-Trichlorophenoxyacetic acid 2.4.5-T Tall oil fatty oil Tall oil, fatty acid = Tall oil, fatty acid Tall oil, fatty acid = Tallow benzyl dimethyl ammonium Benzyldimethyloctadecylammonium = chloride chloride Tallow fatty alcohol Tallow fatty alcohol Tallow oil Tallow = **Tallow** Tallow = Tannic acid Tannic acid Tannin Tannic acid = Tar acids Cresols Tar camphor Naphthalene Antimony potassium tartrate Tartar emetic 1-Tartaric acid, ammonium salt Ammonium tartrate Tartaric acid, copper salt Copper tartrate = Tartarized antimony Antimony potassium tartrate = Antimony potassium tartrate Tartrated antimony = TBA tert-Butylamine Tributyl phosphate **TBP** = Butyl toluene **TBT** = **TCP** Tricresyl phosphate (<1% ortho isomer) = TDE DDD TDI Toluene 2.4-diisocvanate TEA Triethylaluminum = Teaberry or wintergreen oil Methyl salicylate = Chloroacetophenone Tear gas Teflon monomer Tetrafluoroethylene = **TEG** Triethylene glycol Tetraethyl lead TEL =

=

1,3-Dichloropropene

mixture

Dichloropropene, dichloropropane

Tetrachlorozirconium

COMPOUND NAMES

Zirconium tetrachloride

TEN Triethylamine **TEP** Triethyl phosphate Terephthalic acid, dimethyl ester Dimethyl terephthalate Tergitol nonionic 3-A-6

Ethoxylated tridecanol Tergitol nonionic 45-S-10 Ethoxylated pentadecanol Tergitol nonionic 45-S-10 Ethoxylated tetradecanol Tergitol nonionic TMN Ethoxylated dodecanol =

Terpinene Dipentene = Dipentene delta-1,8-Terpodiene =

Triethylenetetramine **TETA** = Tetranitromethane Tetan

Tetraammine copper sulfate Copper sulfate, ammoniated = 3,6,9,12-Tetraazatetradecane-1,14-Pentaethylenehexamine

diamine Tetrabutyl titanate Tetrabutyl titanate = Tetracap Tetrachloroethylene

Tetrachloroethane Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethane Tetrachloroethylene Tetrachloroethylene Tetrachloromethane Carbon tetrachloride

Tetradecanol Linear alcohols 1-Tetradecanol Tetradecanol Tetradecanol Tetradecanol 1-Tetradecene 1-Tetradecene n-Tetradecyl alcohol Tetradecanol Tetradecylbenzene Tetradecylbenzene

Tetraethyl dithionopyrophosphate Tetraethyl dithiopyrophosphate Tetraethyl dithiopyrophosphate Tetraethyl dithiopyrophosphate =

=

Tetraethyl lead Tetraethyl lead = Tetraethyl orthosilicate Ethyl silicate

Tetraethyl pyrophosphate Tetraethyl pyrophosphate =

Tetraethyl silicate Ethyl silicate

Tetraethylene glycol Tetraethylene glycol Tetraethylenepentamine Tetraethylenepentamine Tetrafluoroethylene Tetrafluoroethylene

Tetrahydro-2h-1, 4-oxazine Morpholine 3a,4,7,7a-Tetrahydro-4,7-Methanoindene Dicyclopentadiene =

Tetrahydro-p-oxazine Morpholine

3a,4,7,7a-Tetrahydrodimethyl-4,7-Methylcyclopentadiene dimer methanoindene

Tetrahydrofuran Tetrahydrofuran

Tetrahydronaphthalene Tetrahydronaphthalene = 1,2,3,4-Tetrahydronaphthalene Tetrahydronaphthalene Tetrahvdrothiophene-1.1-Dioxide Sulfolane

Tetrahydroxymethylmethane Pentaerythritol Tetrahydronaphthalene Tetralin

Tetramethyl lead Tetramethyl lead Tetramethyl thiuram disulfide = Thiram

1,2,3,5-Tetramethylbenzene 1,2,3,5-Tetramethylbenzene Tetramethylene glycol 1,4-Butanediol

Tetramethylene oxide Tetrahydrofuran = Tetramethylene sulfone Sulfolane =

Tetramp Tetrahydronaphthalene

Thiocarbonyl chloride

COMPOUND NAMES

Tetranap = Tetrahydronaphthalene Tetranitromethane = Tetranitromethane

Tetrapropylene = Dodecene

Tetrapropylene = Propylene tetramer

Tetrine acid = Ethylenediamine tetracetic acid

Tetrole = Furan

Tetron = Tetraethyl pyrophosphate

Tetrosin LY Diphenyl = Texanol 1-Isobutyrate = Thallium acetate Thallium (I) acetate = Thallium (I) nitrate Thallium nitrate Thallium acetate Thallium acetate Thallium carbonate Thallium carbonate = Thallium monoacetate = Thallium acetate Thallium mononitrate = Thallium nitrate Thallium nitrate Thallium nitrate Thallium sulfate Thallium sulfate Thallous acetate = Thallium acetate Thallous carbonate Thallium carbonate = Thallous nitrate Thallium nitrate

Thallous sulfate = Thallium sulfate
Thanol PPG = Polypropylene glycol

THF = Tetrahydrofuran
2-Thiapropane = Dimethyl sulfide
Thiobutyl alcohol = n-Butyl mercaptan
Thiocarbamide = Thiocarbamide

Thiocarbonyl tetrachloride = Perchloromethyl mercaptan
Thiocyanic acid, ammonium salt = Ammonium thiocyanate

=

Thiophosgene

Thiodan = Endosulfan
Thiodemeton = Disulfoton
Thioethyl alcohol = Ethyl mercaptan
Thiomethyl alcohol = Methyl mercaptan
Thiophenol = Benzenethiol
Thiophosgene = Thiophosgene

Thiophosphoric anhydride = Phosphorus pentasulfide

Thiosulfuric acid, lead salt = Lead thiosulfate
Thiourea = Thiocarbamide
2-Thiourea = Thiocarbamide

2-Thiourea = Thiocarban
Thiram = Thiram
Thiuram = Thiram

Thorium nitrate tetrahydrate = Thorium nitrate
Thorium nitrate = Thorium nitrate

TIBA = Triisobutylaluminum
Tibal = Triisobutylaluminum
Tin diflouride = Stannous flouride
Titanium butoxide = Tetrabutyl titanate
Titanium tetrabutoxide = Titanium tetrachloride
TMP = Triisobutylaluminum
Tr

TNM = Tetranitromethane
2,4-Tolamine = Toluenediamine

Toluene 2,4-diisocyanate = Toluene 2,4-diisocyanate

m-Toluene diamine = Toluenediamine

4-m-Tolylenediamine

COMPOUND NAMES

Toluene, 2.6-dinitro-2.6-Dinitrotoluene Toluene, 3,4-dinitro-3,4-Dinitrotoluene Toluene, hexahvdro Methylcyclohexane Toluene, o-nitro o-Nitrotoluene Toluene, p-nitrop-Nitrotoluene Butyl toluene Toluene, p-tert-butyl Toluene Toluene

Toluenediamine Toluenediamine = 2.4-Toluenediamine Toluenediamine p-Toluenesulfonic acid p-Toluenesulfonic acid

m-Toluidine m-Toluidine o-Toluidine o-Toluidine p-Toluidine p-Toluidine o-Toluol o-Cresol p-Toluol = p-Cresol Toluol Toluene

meta-Toluylenediamine Toluenediamine m-Tolyl chloride m-Chlorotoluene o-Tolyl chloride o-Chlorotoluene p-Tolyl chloride = p-Chlorotoluene Tolyl epoxypropyl ether Cresyl glycidyl ether

o-Tolyl fluoride 2-Fluorotoluene m-Tolyl fluoride 3-Fluorotoluene p-Tolyl fluoride 4-Fluorotoluene Tolyl glycidyl ether Cresyl glycidyl ether = 2,4-Tolylene diisocyanate Toluene 2,4-diisocyanate =

o-Tolylphosphate phosphoric acid Tricresyl phosphate (>= 1% ortho

=

Toluenediamine

isomer) Tosic acid p-Toluenesulfonic acid =

Toxaphene Toxaphene **Toxichlor** = Chlordane Toxilic acid Maleic acid Toxilic anhydride Maleic anhydride 2,4,5-TP acid esters Isooctyl ester =

2,4,5-TP 2-(2,4,5-Trichlorophenoxy) propanoic

=

Oils, miscellaneous: lubricating Transmission oil =

Oils, miscellaneous: motor Transmission oil Treflan Trifluralin

Trethylene Trichloroethylene Tri-6 gamma-Benzene hexachloride

Tri-iso-propanolamine Triisopropanolamine = Tributyl phosphate Tri-n-butyl phosphate = Tri-n-propylamine Tripropylamine =

Tricresyl phosphate (>= 1% ortho Tri-o-cresyl ester

isomer)

Tri-p-cresyl phosphate Tricresyl phosphate (<1% ortho isomer) Tri-p-tolyl phosphate Tricresyl phosphate (<1% ortho isomer) Tributyl phosphate Tributyl phosphate

Tricalcium arsenate Calcium arsenate Tricalcium ortho arsenate Calcium arsenate = Trichloran Trichloroethylene =

Trichlorfon Trichlorfon

COMPOUND NAMES

Trichlormethyl sulfur chloride 1,1,2-Trichloro-1,2,2-trifluoroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)

ethane

Trichloro-s-triazine-2,4,6-(1h, 3h, 5h)-

trione

Trichloro-s-triazinetrione Trichloroacetaldehyde Trichloroamylsilane V-Trichlorobenzene 1,2,3-Trichlorobenzene Vic-Trichlorobenzene 1,2,4-Trichlorobenzene unsym-Trichlorobenzene 1.2.4-Trichlorobenzol 1,1,2-Trichloroethane 1,1,1-Trichloroethane Trichloroethane Trichloroethyl silane Trichloroethyl silicone Trichloroethylene Trichloroethylene

Trichlorohydrin

Trichlorofluoromethane

Trichloroiminoisocyanuric acid Trichloroisocyanuric acid

Trichloromethane sulfuryl chloride

Trichloromethane

Trichloromethanesulfenyl chloride Trichloromethyl sulfochloride

N-[(Trichloromethyl)thio]-4-cyclohexene-1,2,-dicarbodimide

Trichloromethylsilane Trichloromonosilane Trichloronitromethane Trichlorooxovanadium Trichloropentylsilane

2,4,5-Trichlorophenol Trichlorophenol

2-(2,4,5-Trichlorophenoxy) propanoic acid

2,4,5-Trichlorophenoxyacetic acid, sodium salt

2,4,5-Trichlorophenoxyacetic acid

1.2.3-Trichloropropane

Trichlorosilane

Trichlorotriazinetrione

1.1.2-Trichlorotrifluoroethane

Trichlorovinyl silicane Trichlorovinylsilane Triclene; algylen

Tricresyl phosphate (<1% ortho isomer)

Tricresyl phosphate (>

= Perchloromethyl mercaptan

= 1,1,2-Trichloro-1,2,2-trifluoroethane

= DDT

Trichloro-s-triazinetrione

Trichloro-s-triazinetrione
Trichloroacetaldehyde
n-Amyltrichlorosilane
1,2,3-Trichlorobenzene
1,2,3-Trichlorobenzene
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trichlorobenzene
Trichloroethane
Trichloroethane
Trichloroethane

Trichloroethane
 Ethyltrichlorosilane
 Ethyltrichlorosilane
 Trichloroethylene
 Trichloroethylene
 Trichlorofluoromethane
 1,2,3-Trichloropropane
 Trichloro-s-triazinetrione

Trichloro-s-triazinetrionePerchloromethyl mercaptan

: Chloroform

Perchloromethyl mercaptanPerchloromethyl mercaptan

Captan

MethyltrichlorosilaneTrichlorosilaneChloropicrin

Vanadium oxytrichloride
 n-Amyltrichlorosilane
 Trichlorophenol
 Trichlorophenol

= 2-(2,4,5-Trichlorophenoxy) propanoic acid

= 2,4,5-Trichlorophenoxyacetic acid, sodium salt

= 2,4,5-Trichlorophenoxyacetic acid

= 1.2.3-Trichloropropane

= Trichlorosilane

Trichloro-s-triazinetrione

= 1.1.2-Trichloro-1.2.2-trifluoroethane

VinyltrichlorosilaneVinyltrichlorosilaneTrichloroethylene

Tricresyl phosphate (<1% ortho isomer)1% ortho isomer)=Tricresyl phosphate

(>= 1% ortho isomer)

COMPOUND NAMES

n-Tridecane Tridecane

1-Tridecanol, phthalate

Tridecanol
Tridecanol
1-Tridecanol
1-Tridecene
Tridecylbenzene

Tridimethylphenyl phosphate

Trien

Triethanolamine

dodeceylbenzenesulfonate

Triethanolamine lauryl sulfate

Triethanolamine
Triethyl phosphate
Triethyl phosphite
Triethylaluminum
Triethylamine
Triethylbenzene
1,3,5-Triethylbenzene
sym-Triethylbenzene

Triethylene glycol di-(2-ethylbutyrate)

Triethylene glycol ethyl ether Triethylene glycol methyl ether

Triethylene glycol monoethyl ether Triethylene glycol monoethyl ether

Triethylene glycol monomethyl ether

Triethylene glycol

Triethylenephosphoramide Triethylenetetramine

Triethylolamine

Trifluorochloroethylene
Trifluorochloromethane
Trifluoromethyl chloride
Trifluoromonochloroethylene

Trifluorovinyl chloride

Trifluralin Triglycine

Triglycol dicaproate
Triglycol dihexoate
Triglycol methyl ether

Triglycol monoethyl ether

Triglycol monoethyl ether

Triglycol

1,2,3-Trihydroxybenzene 3,4,5-Trihydroxybenzoic acid 1,2,3-Trihydroxypropane Trihydroxytriethylamine

Triisobutene

Triisobutylaluminum Triisobutylene Triisopropanolamine

Trilene

2,4,4-Trimethyl-1-pentene

TridecaneTridecane

Ditridecyl phthalateLinear alcoholsTridecanolTridecanol

= 1-Tridecene= Tridecylbenzene

Trixylenyl phosphateTriethylenetetramine

 Dodecylbenzenesulfonic acid, triethanolamine salt

Dodecyl sulfate, triethanolamine salt

Triethanolamine
 Triethyl phosphate
 Triethyl phosphite
 Triethylaluminum
 Triethylamine
 Triethylbenzene

TriethylbenzeneTriethylbenzeneTriethylbenzene

Triethylene glycol di-(2-ethylbutyrate)

Triethylene glycol ethyl ether
 Triethylene glycol methyl ether

= Ethoxy triglycol

Triethylene glycol ethyl etherTriethylene glycol methyl ether

Triethylene glycol

Tris(Aziridinyl)phosphine oxide

Triethylenetetramine
 Triethanolamine
 Trifluorochloroethylene
 Monochlorotrifluoromethane
 Monochlorotrifluoromethane
 Trifluorochloroethylene

TrifluorochloroethyleneTrifluralin

Nitrilotriacetic acid and salts

Triethylene glycol di-(2-ethylbutyrate)
 Triethylene glycol di-(2-ethylbutyrate)
 Triethylene glycol methyl ether

Triethylene glycol meEthoxy triglycol

= Triethylene glycol ethyl ether

Triethylene glycolPyrogallic acidGallic acidGlycerine

Glycerine
 Triethanolamine
 Triisobutylene
 Triisobutylaluminum
 Triisobutylene
 Triisopropanolamine
 Trichloroethylene

TrichloroethyleDiisobutylene

COMPOUND NAMES

2.4.6-Trimethyl-1.3.5-trioxane 3,5,5-Trimethyl-2-cyclohexane-1-one 4.7.7-Trimethyl-3-norcarene Carene

Trimethyl ester

Trimethyl hexamethylene diamine

Trimethyl phosphite Trimethylacetic acid Trimethylamine Trimethylaminomethane

Asymmetrical Trimethylbenzene 1,2,4-Trimethylbenzene

Trimethylbenzylammonium chloride 2,6,6-Trimethylbicyclo [3.1.1]hept-2-ene,

3,7,7-Trimethylbicyclo[0, 1, 4]hept-3-ene

Trimethylcarbinol Trimethylchlorosilane Trimethylene chloride Trimethylene dichloride

Trimethylene Trimethylheptanals

Trimethylhexamethylene diisocyanate

Trimethylsilyl chloride 5,8,11-Trioxapentadecane 3,6,9-Trioxaundecan-1, 11-diol

Tripropylamine

Tripropylene glycol methyl ether

Tripropylene glycol Tripropylene Tripropylene

Trisodium nitrilotriacetate Trisodium orthophosphate Trisodium phosphate Trixylenyl phosphate Trixylyl phosphate

p-TSA Tubercuprose Tucum oil Turbine oil **Turpentine**

Turps Tyranton Ucane alkylate 12

Ucar bisphenol HP

Ucar solvent 2IM

Ucon 11 Ucon 12 Uconn-22 UDMH UF oxylignin UN 1272 (DOT) UN 2057 (DOT) UN 2243 (DOT) UN 2271 (DOTt) Paraldehvde Isophorone

Trimethyl phosphite

Trimethyl hexamethylene diamine

Trimethyl phosphite Trimethylacetic acid = Trimethylamine = tert-Butvlamine

1,2,4-Trimethylbenzene = 1,2,4-Trimethylbenzene

Benzyltrimethylammonium chloride

Pinene

= Carene

tert-Butyl alcohol Trimethylchlorosilane 1.3-Dichloropropane 1,3-Dichloropropane Cyclopropane Isodecaldehyde

Trimethylhexamethylene diisocyanate

Trimethylchlorosilane

Diethylene glycol dibutyl ether =

Tetraethylene glycol = Tripropylamine =

Tripropylene glycol methyl ether =

Tripropylene glycol

Nonene

Propylene trimer =

Nitrilotriacetic acid and salts Sodium phosphate, tribasic = Sodium phosphate, tribasic Trixvlenvl phosphate Trixylenyl phosphate p-Toluenesulfonic acid Copper formate Oils, edible: tucum

Oils, miscellaneous: turbine

Turpentine Turpentine = Diacetone alcohol Dodecylbenzene Bisphenol A

Dipropylene glycol methyl ether

Trichlorofluoromethane Dichlorodifluoromethane Chlorodifluoromethane 1,1-Dimethylhydrazine Vanillan black liquor Oil, misc: pine Propylene trimer = Cyclohexyl acetate = Ethyl amyl ketone

COMPOUND NAMES

UN 2296 (DOT) = Methylcyclohexane
UN 2323 (DOT) = Triethyl phosphite
UN 2324 (DOT) = Triisobutylene
UN 2364 (DOT) = n-Propylbenzene
UN 2708 (DOT) = 3-Methoxybutyl acetate

Un; do; tri; tetra; penta; or Hexa = $Alkyl(C_{11} C_{17})$ benzenesulfonic acid

benzenesulfonic acid

UN2241 (DOT) Cycloheptane UN2246 (DOT) Cyclopentene UN2313 (DOT) 3-Methylpyridine = UN2313 (DOT) 4-Methylpyridine n-Undecanoic acid Undecanoic acid Undecanoic acid Undecanoic acid Undecanol Undecanol 1-Undecanol Undecanol 1-Undecene 1-Undecene n-Undecoic acid Undecanoic acid Undecyl alcohol Undecanol

Undecyl alcohol = Undecanol
n-Undecylbenzene = n-Undecylbenzene
Undecylethylene = 1-Tridecene
n-Undecylic acid = Undecanoic acid
Unipine = Oil, misc: pine
Unslaked lime = Calcium oxide

Uran, rustica = Urea, ammonium nitrate soln (w/aqua

ammonia)

Uranium acetate dihydrate = Uranyl acetate
Uranium acetate
Uranium nitrate = Uranyl acetate
Uranium oxide (UO#m4) = Uranium peroxide
Uranium oxide peroxide (UO#m2[O#m2]) = Uranium peroxide
Uranium oxyacetate dihydrate = Uranyl acetate

Uranium peroxide = Uranium peroxide
Uranium sulfate trihydrate = Uranyl sulfate
Uranyl acetate dihydrate = Uranyl acetate
Uranyl acetate
Uranyl acetate = Uranyl acetate
Uranyl acetate

Uranyl nitrate = Uranyl nitrate
Uranyl sulfate trihydrate = Uranyl sulfate
Uranyl sulfate = Uranyl sulfate
Uranyl sulfate = Uranyl sulfate
Urea hydrogen peroxide = Urea peroxide
Urea peroxide = Urea peroxide

Urea, ammonium nitrate soln (w/aqua = Urea, ammonium nitrate soln (w/aqua

ammonia) ammonia)
Urea, hydrogen peroxide salt = Urea peroxide

Urea, thio- = Thiocarbamide
Urea = Urea

Urotropin = Hexamethylenetetramine

USAF DO-45 = Acetal

USAF DO-46 = N-Aminoethyl piperazine
USAF ST40 = Methacrylonitrile

Valentinite = Antimony trioxide
Valeral = Valeraldehyde
n-Valeraldehyde = n-Valeraldehyde

Valeraldehyde = Valeraldehyde

COMPOUND NAMES

Valeric acid=Pentanoic acidValeric aldehyde=n-ValeraldehydeValeric aldehyde=ValeraldehydeVAM=Vinyl acetate

Vanadic anhydride = Vanadium pentoxide
Vanadium oxide = Vanadium oxide
Vanadium oxysulfate = Vanadyl sulfate
Vanadium oxytrichloride = Vanadium oxytrichloride

Vanadium oxytrichloride
Vanadium pentoxide
Vanadium pentoxide
Vanadium pentoxide
Vanadium pentoxide
Vanadium pentoxide
Vanadium(V) oxide
Vanadium(V) oxide
Vanadium oxytrichloride
Vanadium oxytrichloride
Vanadium oxytrichloride

Vanadyl sulfate dihydrate = Vanadyl sulfate
Vanadyl sulfate = Vanadyl sulfate

Vanadyl trichloride = Vanadium oxytrichloride

Vanicide = Captan

Vanillan black liquor = Vanillan black liquor

Vapona = Dichlorvos

Vapotone = Tetraethyl pyrophosphate

Vaseline = Petrolatum

VCL = Vinyl chloride

VCM = Vinyl chloride

Vegetable carbon = Charcoal

Velsicol 1068 = Chlordane

Velsicol 1068= ChlordaneVelsicol= HeptachlorVentox= AcrylonitrileVermilion= Mercuric sulfide

Versene acid = Ethylenediamine tetracetic acid Vidden D = Dichloropropene, dichloropropane

mixture

Vienna green = Copper acetoarsenite

Vilrathane 4300 = Diphenylmethane diisocyanate

Vinamar Vinvl ethvl ether Acetic acid Vinegar acid Vinegar naphtha Ethyl acetate 4-Vinyl-1-cyclohexene Vinylcyclohexene Vinyl A monomer Vinyl acetate = Vinyl acetate Vinyl acetate Vinyl C monomer Vinyl chloride Vinyl carbinol Allyl alcohol = Vinyl chloride Vinyl chloride Acrylonitrile Vinyl cyanide

Vinyl ethyl ether = Vinyl ethyl ether
Vinyl fluoride = Vinyl fluoride
Vinyl formic acid = Acrylic acid
Vinyl methyl ether = Vinyl methyl ether
Vinyl neodecanoate
Vinyl toluene = Vinyl toluene

Vinyl trichloride = 1,1,2-Trichloroethane

Vinylbenzene = Styrene

Vinylcyclohexene = Vinylcyclohexene Vinylethylene = Butadiene

Vinylidene chloride = Vinylidene chloride

p-Xylene

COMPOUND NAMES

Vinylsilicon trichloride=VinyltrichlorosilaneVinyltrichlorosilane=VinyltrichlorosilaneVulkacit HX=N-EthylcyclohexylamineVV 10 vinyl monomer=Vinyl neodecanoate

Vyac = Vinyl acetate
W-10 = Ethylene dibromide
W-15 = Ethylene dibromide
W-40 = Ethylene dibromide

Water displacing oil = Oils, miscellaneous: penetrating

Water glass = Sodium silicate
Waxes: carnauba
Waxes: paraffin = Waxes: paraffin
Weisspiessglanz = Antimony trioxide
White arsenic = Arsenic trioxide

White oil = Oils, miscellaneous: mineral

White spirit (low (15-20%) aromatic) = White spirit (low (15-20%) aromatic)

p-Xylene

White vitriol Zinc sulfate Witicizer 300 Dibutyl phthalate Wolfatox Methyl parathion Methyl alcohol Wood alcohol Charcoal Wood charcoal = Dimethyl ether Wood ether Wood spirit Methyl alcohol Wood turpentine **Turpentine** = Xenene Diphenyl = m-Xylene m-Xylene = o-Xylene o-Xylene =

Xylenol, phosphate (3:1) = Trixylenyl phosphate

Xylenol = Xylenol 2,6-Xylenol = Xylenol

o-Xylidine = 2,6-Dimethylaniline 2,6-Xylidine = 2,6-Dimethylaniline

Xylyl phosphate = Trixylenyl phosphate 2,6-Xylylamine = 2,6-Dimethylaniline Yarmor pine oil = Oil, misc: pine Yarmor = Oil, misc: pine Yellow arsenic sulfide = Arsenic trisulfide Yellow petrolatum = Petrolatum

Yellow phosphorus = Phosphorus, white

Zactran = Zectran
Zectane = Zectran
Zectran = Zectran

Zelio = Thallium sulfate Zextran = Zectran

Zextran = Zectran

Zinc acetate dihydrate = Zinc acetate

Zinc acetate = Zinc acetate

Zinc ammonium chloride = Zinc ammonium chloride

Zinc arsenate = Zinc arsenate
Zinc bichromate = Zinc bichromate
Zinc borate = Zinc borate

COMPOUND NAMES

Zinc acetate

Zinc bromide Zinc bromide Zinc carbonate Zinc carbonate Zinc chloride Zinc chloride Zinc chromate (VI) hydroxide Zinc chromate Zinc chromate Zinc chromate Zinc cyanide Zinc cyanide Zinc diacetate

Zinc dialkyldithiophosphate Zinc dialkyldithiophosphate

Zinc dichromate Zinc bichromate Zinc dicyanide Zinc cyanide = Diethylzinc Zinc diethyl Zinc difluoride Zinc fluoride

Zinc dihexyldithiophosphate Zinc dialkyldithiophosphate Zinc dihexylphosphorodithioate Zinc dialkyldithiophosphate

Zinc dimethyl = Dimethylzinc Zinc dithionite Zinc hydrosulfite Zinc ethyl Diethylzinc

Zinc ethylenediaminetetraacetate Diammonium salt of zinc EDTA

Zinc fluoborate solution Zinc fluoroborate Zinc fluoride Zinc fluoride Zinc fluoroborate Zinc fluoroborate Zinc fluosilicate Zinc silicofluoride Zinc formate Zinc formate Zinc hexafluorosilicate Zinc silicofluoride Zinc hydrosulfite Zinc hydrosulfite Zinc methyl Dimethylzinc

Zinc nitrate hexahydrate Zinc nitrate Zinc nitrate Zinc nitrate

Zinc O,O-di-n-butylphosphorodithioate Zinc dialkyldithiophosphate Zinc p-phenolsulfonate Zinc phenolsulfonate

Zinc phenolsulfonate octahydrate Zinc phenolsulfonate Zinc phenolsulfonate Zinc phenolsulfonate

Zinc phosphide Zinc phosphide

Zinc potassium chromate Zinc potassium chromate

Zinc silicofluoride hexahydrate Zinc silicofluoride Zinc silicofluoride Zinc silicofluoride Zinc suflate heptahydrate Zinc sulfate Zinc sulfate Zinc sulfate =

Zinc sulfocarbolate Zinc phenolsulfonate Zinc sulfophenate Zinc phenolsulfonate

Zinc vitriol Zinc sulfate

Zinc yellow Y-539-D Zinc potassium chromate Zinc yellow Zinc chromate =

Zirconium acetate solution Zirconium acetate Zirconium acetate Zirconium acetate Zirconium chloride Zirconium tetrachloride Zirconium nitrate pentahydrate Zirconium nitrate

Zirconium nitrate Zirconium nitrate Zirconium oxide chloride Zirconium oxychloride Zirconium oxychloride hydrate Zirconium oxychloride Zirconium oxychloride Zirconium oxychloride

Zirconium potassium flouride Zirconium potassium flouride =

Zirconium sulfate tetrahydrate Zirconium sulfate = Zirconium sulfate Zirconium sulfate

COMPOUND NAMES

Zirconium tetrachloride solid (DOT) Zirconium tetrachloride Zirconyl chloride

- Zirconium tetrachlorideZirconium tetrachloride
- = Zirconium oxychloride

9. INDEX OF CODES

AAC	Acetic acid	AMH	Ammonium hydroxide (<28% aqueous
AAD	Acetaldehyde		ammonia)
AAM	Acrylamide solution	AMK	n-Amyl methyl ketone
AAN	n-Amyl alcohol	AMM	n-Amyl mercaptan
AAS	sec-Amyl acetate	AMN	Ammonium nitrate
AAT	Ammonium acetate	AMP	Ammonium perchlorate
ABC	Ammonium bicarbonate	AMR	Ammonium stearate
ABF	Ammonium bifluoride	AMS	Ammonium sulfate
ABM	Acetyl bromide	AMT	Ammonium thiocyanate
ABN	Alkyl $(C_{11} - C_{17})$ benzenesulfonic acid	AMY	n-Amyl chloride
ABR	Allyl bromide	ANB	Ammonium bromide
ABZ	Ammonium benzoate	ANI	iso-Amyl nitrite
ACA	Acetic anhydride	ANL	Aniline
ACB	Ammonium carbonate	ANP	Ammonium nitrate-phosphate mixture
ACC	Acetyl chloride	ANS	Ammonium nitrate-sulfate mixture
ACD	Acridine	ANT	n-Amyl nitrate
ACE	Acetylene	ANU	Ammonium nitrate-urea solution
ACF	Allyl chloroformate	AOL	Ammonium oleate
ACH	Ammonium chromate	AOX	Ammonium oxalate
ACI	Ammonium citrate, dibasic	APB	Ammonium pentaborate
ACL	Aluminum chloride	APC	Antimony pentachloride
ACM	Ammonium carbamate	APE	Ammonium persulfate
ACN	Acrylonitrile	APF	Antimony pentafluoride
ACO	Aluminum chloride solution	APH	
ACP		API	Aluminum phosphide
ACR	Acetophenone	APO	Ammonium picrate, wet
ACK	Acrylic acid Acetone	APO	Arsenic pentaoxide
		APR	Ammonium phosphate
ACY	Acetone cyanohydrin	APK	2-Amino-2-methyl-1-propanol (90% or
ADA	Adipic acid	A D.C	less)
ADN	Adiponitrile	APS	Acetyl peroxide solution
AEC	Amyl acetate (all isomers)	APT	Antimony potassium tartrate
AEE	Aminoethylethanolamine	APY	4-Aminopyridine
AEL	Acetal	ARD	Arsenic disulfide
AEP	N-Aminoethyl piperazine	ARF	Asphalt blending stocks: roofers flux
AFB	Ammonium fluoborate	ARL	Acrolein
AFM	Ammonium formate	ART	Arsenic trisulfide
AFR	Ammonium fluoride	ARX	Arsenic
AGC	Ammonium gluconate	ASA	Arsenic acid
AHP	Ammonium hypophosphite	ASC	Anisoyl chloride
AID	Ammonium iodide	ASF	Ammonium sulfide
ALA	Allyl alcohol	ASL	Ammonium silicofluoride
ALC	Allyl chloride	ASM	Ammonium sulfamate
ALD	Aldrin	ASP	Asphalt
ALF	Aluminum fluoride	ASR	Asphalt blending stocks: straight run
ALM	Aluminum sulfate		residue
ALN	Aluminum nitrate	AST	Arsenic trichloride
ALS	Ammonium lauryl sulfate	ASU	Ammonium bisulfite
ALT	Ammonium lactate	ASX	Aluminum sulfate solution
AMA	Ammonia, anhydrous	ATA	Acetylacetone
AMB	Ammonium molybdate	ATB	Antimony tribromide
AMC	Ammonium chloride	ATC	Allyltrichlorosilane
AMD	Ammonium dichromate	ATF	Ammonium thiosulfate
AMF	Ammonium sulfite	ATH	Anthracene

ATL	Amyl phthalate	BNZ	Benzene
ATM	Antimony trichloride	BOC	Bismuth oxychloride
ATN	Acetonitrile	BPA	Bisphenol A
ATO	Arsenic trioxide	BPC	Barium perchlorate
ATR	Ammonium tartrate	BPD	Benzene phosphorus dichloride
ATS		BPE	
	n-Amyltrichlorosilane		2-Bromopentane
ATT	Antimony trifluoride	BPF	Bromine pentafluoride
ATV	Ammonium thiosulfate solution (60% or	BPH	Butyl benzyl phthalate
	less)	BPM	Barium permanganate
ATX	Antimony trioxide	BPN	n-Butyl propionate
ATZ	Atrazine	BPO	Barium peroxide
AYA	tert-Amyl acetate	BPR	1-Bromopropane
AZM	Azinphos methyl	BPT	Benzene phosphorus thiodichloride
BAB	•	BRA	n-Butyric acid
	Bromoacetyl bromide		
BAC	Boric acid	BRC	Barium carbonate
BAD	iso-Butyraldehyde	BRE	Bromoacetone
BAI	iso-Butyl acrylate	BRO	Bromoform
BAL	Benzyl alcohol	BRT	Boron trichloride
BAM	n-Butylamine	BRU	Brucine
BAN	n-Butyl alcohol	BRX	Bromine
BAS	sec-Butyl alcohol	BSC	Benzenesulfonyl chloride
BAT	tert-Butyl alcohol	BTA	sec-Butyl acetate
BBR		BTB	Boron tribromide
	Benzyl bromide		
BBT	2-Bromobutane	BTC	n-butyl acrylate
BBU	1-Bromobutane	BTD	1,4-Butynediol
BBZ	Bromobenzene	BTF	Bromine trifluoride
BCF	Benzyl chloroformate	BTL	sec-Butylamine
BCL	Benzyl chloride	BTM	n-Butyl mercaptan
BCN	n-Butyl acetate	BTN	Butylene
BCP	Boiler compound, liquid	вто	1,2-Butylene oxide
BCR	Barium chlorate	BTP	p-tert-Butylphenol
BCS	Butyltrichlorosilane	BTR	n-Butyraldehyde
BCY		BUA	· · · · · · · · · · · · · · · · · · ·
	Barium cyanide		tert-Butylamine
BDE	Bisphenol a diglycidyl ether	BUB	Butyl butyrate
BDI	Butadiene	BUC	Butyryl chloride
BDM	Benzyl dimethylamine	BUD	1,4-Butenediol
BDO	1,4-Butanediol	BUE	Butyl toluene
BEC	Beryllium chloride	BUF	n-Valeraldehyde
BEF	Beryllium fluoride	BUG	Butylene glycol
BEM	Beryllium	BUT	Butane
BEN	Beryllium nitrate	BYA	tert-Butyl acetate
BEO	Beryllium oxide	BYC	Butyl chloride
	•		•
BES	Beryllium sulfate	BZA	Benzoic acid
BFN	n-Butyl formate	BZC	Benzoyl chloride
BFO	n-Butyl chloroformate	BZD	Benzaldehyde
BGE	n-Butyl glycidyl ether	BZE	Benzyl acetate
BHC	gamma Benzene hexachloride	BZI	Benzidine
BHP	tert-Butyl hydroperoxide	BZL	Benzal chloride
BIB	Isobutyl isobutyrate	BZM	Benzylamine
BLE	Butyl lactate	BZN	Benzonitrile
BMA	Benzyltrimethylammonium chloride	BZO	Benzyldimethyloctadecylammonium
BMI	Isobutyl methacrylate	D.7.0	chloride
BMN	n-butyl methacrylate	BZP	Benzophenone
BNI	Butyronitrile	BZQ	p-Benzoquinone
BNP	2-Butanone peroxide	BZT	Benzenethiol
BNT	Barium nitrate	CAA	Copper acetoarsenite

CAC	Chloroacetyl chloride	CLP	3-Chloropropionic acid
CAF	Calcium fluoride	CLS	Caprolactam
CAH	Calcium hydroxide	CLT	Copper lactate
CAL		CLX	Chlorine
	Calcium phosphate		
CAM	Calcium	CMA	Chromic anhydride
CAO	Calcium oxide	CMB	Cadmium bromide
CAP	p-Chloroaniline	CMC	Chromyl chloride
CAR	Carene	CME	Chloromethyl methyl ether
CAS	Calcium arsenite	CMH	Cumene hydroperoxide
CAT	Cadmium acetate	CMN	Cadmium nitrate
		_	
CBA	Cobalt acetate	CMO	Carbon monoxide
CBB	Carbon disulfide	CMP	p-Cymene
CBC	Cobalt chloride	CMS	Cadmium sulfate
CBD	Copper bromide (ous)	CNE	1-Chloro-1-nitropropane
CBF	Carbofuran	CNI	Copper nitrate
CBN	4-Chlorobutyronitrile	CNN	Copper naphthenate
CBO	Carbolic oil (mixture)	CNO	o-Chloronitrobenzene
CBR	Cyanogen bromide	CNT	Calcium nitrate
CBS	Cobalt sulfate	COB	Cobalt bromide (ous)
CBT	Carbon tetrachloride	COF	Cobalt fluoride
CBY	Carbaryl	COL	Copper oxalate
CCA	Calcium arsenate	COP	Copper acetate
CCB	Calcium carbide	COS	Cobalt sulfamate
	Calcium chlorate	COU	
CCC			Coumaphos
CCH	Cyclohexanone	COX	Cadmium oxide
CCL	Cyanogen chloride	CPA	Copper arsenite
CCN	Calcium cyanide	CPB	Copper bromide
CCO	Cobalt nitrate	CPC	Copper chloride
CCP	Calcium peroxide	CPE	Cyclopentene
CCR	Calcium chromate	CPF	Copper fluoroborate
CCT		CPG	
	Creosote, coal tar		Copper glycinate
CCY	Copper cyanide (ous)	CPH	Camphene
CDA	Cacodylic acid	CPL	Chloropicrin
CDC	Cadmium chloride	CPN	p-Chlorophenol
CDN	Chlordane	CPO	Camphor oil
CDO	Carbon dioxide	CPP	Calcium phosphide
CES	Cupriethylenediamine solution	CPR	Cyclopropane
CFB	Cadmium fluoroborate	CPS	Caustic potash solution
CFM	Cobalt formate	CPT	Captan
CGE	Cresyl glycidyl ether	CRA	Chloroacetophenone
CHA	Cyclohexylamine	CRB	Chlorobenzene
CHC	Charcoal	CRC	Chromous chloride
CHD	Chlorohydrins	CRE	Calcium resinate
СНМ	Chloroacetic acid (80% or less)	CRF	Chloroform
CHN	Cyclohexanol	CRH	o-Chlorophenol
CHO	Chloroacetaldehyde	CRL	m-Cresol
CHP	Cyclohexanone peroxide	CRN	p-Chlorotoluene
CHS	Chromic sulfate	CRO	o-Cresol
CHT	Cyclohexenyltrichlorosilane	CRP	Chloroprene
CHX	Cyclohexane	CRS	Cresols
CHY	Calcium hypochlorite	CRT	Chromic acetate
CID	Copper iodide	CSA	Chlorosulfonic acid
CIT			
	Citric acid	CSC	Cresylate spent caustic solution
CLA	2-Chloropropionic acid	CSF	Copper sulfate
CLC	Calcium chloride	CSN	Copper sulfate, ammoniated
CLD	Collodion	CSO	p-Cresol

CSS	Caustic soda solution	DCM	Dichloromethane
CST	Copper subacetate	DCO	Decanoic acid
CSY	Corn syrup	DCP	2,4-Dichlorophenol
CTA	Crotonaldehyde	DCR	N,N-Dimethylcarbamoyl chloride
CTC	Catechol	DCS	Dodecylbenzenesulfonic acid, calcium salt
CTD	4-Chloro-o-toluidine	DCT	1,1-Dichloro-1-nitroethane
CTF	Chlorine trifluoride	DCV	Dichlorvos
CTM	m-Chlorotoluene	DCY	4,6-Dinitro-o-cyclohexyl phenol
СТО	o-Chlorotoluene	DDB	Dodecylbenzene
CTP	Coal tar pitch	DDC	1-Dodecene
CTT	Copper tartrate	DDD	DDD
CUF	Copper formate	DDI	2,2-Dimethylpropane-1,3-diol
CUM	Cumene	DDM	Dodecylmethacrylate
CWD	Creosote (wood)	DDN	Dodecanol
CXY	Carbon oxyfluoride	DDP	Dodecyl/pentadecyl methacrylate
CYA	Cyanoacetic acid	DDS	Dodecyl sulfate, sodium salt
CYC	Cyclohexyl acetate	DDT	DDT
CYE	Cycloheptane	DDW	Dimethylhexane dihydroperoxide
CYG	Cyanogen	DEA	Diethanolamine
CYP	Cyclopentane	DEB	Diethylbenzene
CYT	1,5,9-Cyclododecatriene	DEC	Diethyl carbonate
DAA	Diacetone alcohol	DED	Dieldrin
DAC	Dimethylacetamide	DEE	2,2-Dichloroethyl ether
DAE	N,N-Diethylethanolamine	DEG	Diethylene glycol
DAI	Dodecylbenzenesulfonic acid,	DEH	Di-(2-ethylhexyl) adipate
	isopropylamine salt	DEK	Diethyl ketone
DAL	Decaldehyde	DEL	1,2-Dichloroethylene
DAM	Diphenylamine	DEM	Diethylene glycol monobutyl ether acetate
DAN	n-Decyl alcohol	DEN	Diethylamine
DAP	Di-n-amyl phthalate	DEP	Di-(2-ethylhexyl)phosphoric acid
DAR	n-Decyl acrylate	DER	Butyl, decyl, cetyl-eicosyl methacrylate
DAS	Dodecyl benzene sulfonic acid, sodium salt		2,4-D esters
DBA	Di-n-butylamine	DET	Diethylenetriamine
DBC	Diisobutylcarbinol	DEZ	Diethylzinc
DBE	Di-n-butyl ether	DFA	Difluorophosphoric acid
DBH	Dibromomethane	DFE	1,1-Difluoroethane
DBK	Di-n-butyl ketone	DFF	Distillates: flashed feed stocks
DBL DBM	Diisobutylene	DFM	Dichloromonofluoromethane
DBN	m-Dichlorobenzene Dibenzyl ether	DGA DGD	Diethylene glycol ethyl ether acetate Diethylene glycol dimethyl ether
DBO	o-Dichlorobenzene	DGE	Diethylene glycol monoethyl ether
DBP	p-Dichlorobenzene	DGL	Diethylene glycol phthalate
DBR	Decaborane	DGM	Diethylene glycol monomethyl ether
DBS	Dodecylbenzenesulfonic acid,	DGR	Diethylene glycol methyl ether acetate
DDO	triethanolamine salt	DGT	Dimethyl glutarate
DBT	Dibutylphenol	DGY	Dipropylene glycol dibenzoate
DBU	Diisobutylamine	DHA	Di-n-hexyl adipate
DBZ	n-Decylbenzene	DHE	Diethylene glycol n-hexyl ether
DCA	2,4-Dichlorophenoxyacetic acid	DHN	Decahydronaphthalene
DCB	Dichlorobutene	DHP	Diheptyl phthalate
DCC	Decane	DHX	1,6-Dichlorohexane
DCE	1-Decene	DIA	Diisopropylamine
DCF	Dichlorodifluoromethane	DIB	Dichlobenil
DCH	1,1-Dichloroethane	DIC	Dicamba
DCI	2,2'-Dichloroisopropyl ether	DID	Diisodecyl phthalate
DCL	Dichlone	DIE	Di-(2-ethylhexyl)phthalate

DIF DIG DIH DIK DIN DIN DIO DIP DIQ DIS DIT DIX DLA DLP	Dinonyl phthalate Diethylene glycol dibutyl ether Diisopropylbenzene hydroperoxide Diisopropyl naphthalene Diisobutyl ketone Diphenyl Dimethyl ether Diisononyl phthalate Diisopropanolamine Diquat Disulfoton Diisobutyl phthalate Diuron Diisopropylbenzene (all isomers) Dimethyl adipate 2,2-Dichloropropanoic acid	DPE DPF DPG DPH DPI DPM DPN DPO DPP DPT DPU DPY DSA DSD DSE DSF DSL	Diphenyl ether 2,3-Dichloropropene Dipropylene glycol Diethyl phthalate Dimethyl hydrogen phosphite Diphenylmethane diisocyanate Dipentene Dibenzoyl peroxide 1,2-Dichloropropane Dicyclopentadiene 1,3-Dichloropropene Dipropylene glycol methyl ether Dodecylbenzenesulfonic acid Dodecyl sulfate, diethanolamine salt Dimethyl succinate Dimethyl sulfate Dimethyl sulfate
DLS	N,N-Dimethyl acetamide solution (40% or less)	DSM DSR	Dodecyl sulfate, magnesium salt Distillates: straight run
DMA DMB	Dimethylamine Dimethylethanolamine	DSS DST	Dioctyl sodium sulfosuccinate Dodecyl sulfate, triethanolamine salt
DMD DME	Dimethyldichlorosilane Diethylene glycol monobutyl ether	DSU DSZ	Diethyl sulfate Diammonium salt of zinc edta
DMF DMH	Dimethylformamide 1,1-Dimethylhydrazine	DTC DTE	Dodecyltrichlorosilane Dichlorotetrafluoroethane
DML	1,2-Dimethylhydrazine	DTH	Dowtherm
DMM DMN	2,6-Dimethylaniline 2,6-Diethylaniline	DTL DTM	Dimethyl phthalate 4,4'-Dichloro-alpha-trichloromethyl
DMO	2,2-Dimethyloctanoic acid		benzhydrol
DMP	Dimethylpolysiloxane	DTN	Demeton
DMS DMT	Dimethyl sulfoxide Dimethyl terephthalate	DTP DTS	Ditridecyl phthalate Dextrose solution
DMX	Dichloropropene, dichloropropane mixture	DTT	2,4-Dinitrotoluene
DMZ	Dimethylzinc	DUP	Diundecyl phthalate
DNA	Di-n-propylamine	DUR	Dursban
DNB	m-Dinitrobenzene	DXN	N,n-Dimethylcyclohexylamine
DNC	Dinitrocresol	DZN	Diazinon
DNE	2,5-Dinitrophenol	DZP	Di-(p-chlorobenzoyl) peroxide
DNH	2,6-Dinitrophenol	EAA	Ethyl acetoacetate
DNL DNO	2,6-Dinitrotoluene o-Dinitrobenzene	EAC EAD	Ethyl acrylate Ethylaluminum dichloride
DNP	2,4-Dinitrophenol	EAL	2-Ethylhexyl acrylate
DNT	2,4-Dinitrophenol	EAK	Ethyl amyl ketone
DNU	3,4-Dinitrotoluene	EAL	Ethyl alcohol
DNY	Diisononyl adipate	EAM	Ethylamine
DNZ	p-Dinitrobenzene	EAS	Ethylaluminum sesquichloride
DOA	Dioctyl adipate	EBA	N-Ethyl-n-butylamine
DOD	Dodecene	EBK	Ethyl butyl ketone
DOL	Dodecyl phenol	EBR	Ethyl butyrate
DOP	Dioctyl phthalate	EBT	Ethyl butanol
DOS	Dodecyl diphenyl ether disulfonate solution	ECA	Ethyl chloroacetate
DOX DPA	1,4-Dioxane	ECC ECF	N-Ethylcyclohexylamine Ethyl chloroformate
DPA DPB	Dibutyl phthalate 1,1-Dichloropropane	ECH	Ethylene chlorohydrin
DPC	1,3-Dichloropropane	ECL	Ethyl chloride
DPD	Diphenyldichlorosilane	ECS	Ethyldichlorosilane

ECT ECY EDA EDB EDC EDR EDT EEA EEE EEO	Ethyl chlorothioformate Ethyl cyclohexane Ethylenediamine Ethylene dibromide Ethylene dichloride Endrin Ethylenediamine tetracetic acid 2-Ethoxyethyl acetate Ethylene glycol diethyl ether 2-Ethoxyethanol Ethyl-3-ethoxypropionate	ETC ETD ETE ETG ETH ETI ETL ETM ETN ETO ETS	Ethylene cyanohydrin Ethoxylated tridecanol 2-Ethyl toluene Ethoxy triglycol Ethane Ethyleneimine Ethylene Ethyl methacrylate Ethyl nitrite Ethion Ethyltrichlorosilane
EET EFM	Ethyl ether Ethyl formate	EVO FAC	Epoxidized vegetable oils Ferric ammonium citrate
EGA EGB	Ethylene glycol monoethyl ether acetate Ethylene glycol dibutyl ether	FAL FAM	Furfuryl alcohol Formamide
EGD	Ethylene glycol dibutyl ether	FAN	2-Fluoroaniline
EGE	Ethylene glycol monoethyl ether	FAO	Ferric ammonium oxalate
EGI	Ethylene glycol isopropyl ether	FAS	Ferrous ammonium sulfate
EGL	Ethylene glycol	FCL	Ferric chloride
EGM	Ethylene glycol monobutyl ether	FCP	Ferric glycerophosphate
EGO	Ethylene glycol acetate	FEC	Ferrous chloride
EGP	Ethylene glycol propyl ether	FFA	Furfural
EGT	Ethylene glycol methyl ether acetate	FFB	Ferrous fluoroborate
EGY	Ethylene glycol diacetate	FFX	Ferric fluoride
EHA	Ethylhexaldehyde	FLA	4-Fluoroaniline
EHC	2-Ethylhexyl acetate	FLB	Fluorobenzene
EHE	Ethyl hexyl phthalate	FLT FMA	2-Fluorotoluene
EHM EHO	2-Ethylhexylamine 2-Ethylhexanoic acid	FMS	Formic acid Formaldehyde solution
EHP	Ethoxydihydropyran	FNT	Ferric nitrate
EHT	Ethyl hexyl tallate	FOX	Ferrous oxalate
EHX	2-Ethyl hexanol	FPS	Ferrophosphorus
ELT	Ethyl lactate	FRS	Ferrous sulfate
EMA	Ethylene glycol monobutyl ether acetate	FSA	Fluosulfonic acid
EMC	Ethyl mercaptan	FSF	Ferric sulfate
EME	Ethylene glycol monomethyl ether	FSL	Fluosilicic acid
EMN	n-Ethyl morpholine	FSN	Ferrosilicon
EMX	Ethylenediamine	FTO	3-Fluorotoluene
ENB	Ethylidene norbornene	FTU	4-Fluorotoluene
ENP	Ethoxylated nonylphenol	FUM	Fumaric acid
EOD	Ethoxylated dodecanol	FUR	Furan
EOP	Ethoxylated pentadecanol	FXX	Fluorine
EOT EOX	Ethoxylated tetradecanol	GAC GAK	Glyoxylic acid (50% or less)
EPA	Ethylene oxide 2-Ethyl-3-propylacrolein	GAT	Gasoline blending stocks: alkylates Gasolines: automotive (<4.23g lead/gal)
EPC	Epichlorohydrin	GAV	Gasolines: automotive (<4.239 lead/gal)
EPD	Ethyl phosphonothioic dichloride	GCM	Glycidyl methacrylate
EPE	Ethylene glycol phenyl ether	GCR	Glycerine
EPL	Ethylphenol	GCS	Gasolines: casinghead
EPP	Ethyl phosphorodichloridate	GLA	Gallic acid
EPR	Ethyl propionate	GOC	Gas oil: cracked
EPS	Ethylphenyldichlorosilane	GOS	Glyoxal
ESC	Ethyl silicate	GPL	Gasolines: polymer
ESF	Endosulfan	GRF	Gasoline blending stocks: reformates
ETA	Ethyl acetate	GSR	Gasolines: straight run
ETB	Ethylbenzene	GTA	Glutaraldehyde solution

HAC	Hexadecyltrimethylammonium chloride	IOC	Isooctaldehyde
HAE	Hexyl acetate	IPA	Isopropyl alcohol
HAI	2-Hydroxyethyl acrylate	IPC	Isopropyl percarbonate
HAL	n-Hexaldehyde	IPD	Isophorone diisocyanate
HAS	Hydroxylamine sulfate	IPE	Isopropyl ether
HBA	2-Hydroxy-4-(methylthio)-butanoic acid	ÏРН	Isophorone
HBR	Hydrogen bromide	IPI	Isophorone diamine
HCB	Hexachlorobutadiene	IPL	Isophthalic acid
HCC	Hexachlorocyclopentadiene	IPM	Isopropyl mercaptan
HCE	Hexachloroethane	IPP	Isopropylamine
HCL	Hydrochloric acid	IPR	Isoprene
HCN	Hydrogen cyanide	IPT	Isopentane
HCP	Hexachlorophene	IPX	Isopropyl cyclohexane
HCZ	Hexachlorobenzene	ISA	Isodecyl alcohol
HDA	Hydroxylamine	ISP	o-Isopropyl phenol
HDC	Hydrogen chloride	IVA	Isovaleraldehyde
HDQ	Hydroquinone	JPF	Jet fuels: JP-4
HDS	Hydrogen sulfide	JPO	Jet fuels: JP-1
HDZ	Hydrazine	JPT	Jet fuels: JP-3
HEP		JPV	Jet fuels: JP-5
HFA	Heptanoic acid	KPE	
HFS	Hydrofluoric acid		Kepone
	Hydrofluorosilicic acid (25% or less)	KRS	Kerosene
HFX	Hydrogen fluoride	LAC	Lead acetate
HMD	Hexamethylenediamine	LAH	Lithium aluminum hydride
HMI	Hexamethylenimine	LAL	Linear alcohols
HMT	Hexamethylenetetramine	LAR	Lead arsenate
HPA	Hydroxypropyl acrylate	LBC	Lithium bichromate
HPE	Heptyl acetate	LCL	Lead chloride
HPM	Hydroxypropyl methacrylate	LCR	Lithium chromate
HPO	Hydrogen peroxide	LFB	Lead fluoroborate
HPT	Heptane	LFR	Lead fluoride
HSS	Hexadecyl sulfate, sodium salt	LHD	Lithium hydride
HTC	Heptachlor	LID	Lead iodide
HTE	1-Heptene	LLS	Latex, liquid synthetic
HTN	Heptanol	LNG	Liquefied natural gas
HXA	n-Hexane	LNI	Lactonitrile solution (80% or less)
HXE	1-Hexene	LNT	Lead nitrate
HXG	Hexylene glycol	LPG	Liquefied petroleum gas
HXN	1-Hexanol	LPO	Lauroyl peroxide
HXO	Hexanoic acid	LRA	Lauric acid
HXX	Hydrogen	LRM	Lauryl mercaptan
IAA	Isoamyl alcohol	LSA	Lead stearate
IAC	Isopropyl acetate	LSF	Lead sulfate
IAI	Isodecyl acrylate	LSU	Lead sulfide
IAL	Isobutyl alcohol	LTA	Lactic acid
IAM	Isobutylamine	LTC	Lead thiocyanate
IAT	Isoamylacetate	LTH	Litharge
IBA	Isobutyl acetate	LTM	Lithium
IBL	Isobutylene	LTS	Lead thiosulfate
IBN	Isobutyronitrile	LTT	Lead tetraacetate
IBR	Isobutyric acid	LTU	Lead tungstate
IBT	Isobutane	MAA	Methyl amyl alcohol
IDA	Isodecaldehyde	MAC	Methyl amyl acetate
IGE	Isopropyl glycidyl ether	MAD	Methacrylic acid
IHA	Isohexane	MAE	Methyl acetoacetate
IOA	Isooctyl alcohol	MAK	Methylamyl ketone

MAL Methyl accolol MLL Maleic acid MAM Methyl acrylate MLL Methyl allyl alcohol MAN N-methylaniline MLP 3-Methyl plyyridine MAP Methyl acceptene, propadiene mixture MLT Malathion Methyl methyl methyl ethoral MEA a-Methylbenzyl alcohol MME Methyl methyl ethoral MIME Methyl tert-butyl ether MMM Methyl methacrylate MIME Methyl tert-butyl ether MIME MIME Methyl bethone MIME Methyl bethone MIME Methyl butynethen MIME Methyl butynethen MIME Methyl butynate MIME Methyl butynate MIME Methyl butynate MIME Methyl butynate MIME Methyl butynol MIME Methyl benchorated MIME Methyl benchorated MIME MIME Methyl benchorated MIME MIME MIME METHOR MIME MIME METHOR MIME METHOR MIME METHOR MIME METHOR MIME MIME MIME MIME MIME MIME MIME MIM				
MAN N-méthylaniline Methyl acetylene, propadiene mixture MAT Mercuric acetate a-Methylbenzyl alcohol MBE Methyl retr-butyl ether MME MBE Methyl tert-butyl ether MME MBE Methyl tert-butyl ether MME MBE Methyl retrolol MNS Mineral spirits MBL Methyl butenol MNS Mineral spirits MBU Methyl butyrate MOA 3-Methyl-2-butanone MNT Mercuric nitrate MBU Methyl butyrate MOA 3-Methoxychlor MCC Methoxychlor MCC Methylcyclopentadiene MPC MCM Mercuric oxide MCC Methylcyclopentadiene MPC Methyl phosphonothioic dichloride MPC Methylcyclopentadiene MPC Methylcyclopentadiene MPC Methylcyclopentadiene MPC MCN Mercuric oxide MPC Methylcyclopentadiene MPC MPC Methylcyclopentadiene MPC MPC Methylcyclopentadiene MPC MPC Methylcyclopentadiene MPC				
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MLA Maleic anhydride NBR Nickel bromide				
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IVILH IVIAIEIC NYGRAZIGE NCL Nickel chloride				
	MLH	ivialeic nydrazide	NCL	NICKEI CNIOTIGE

NCN OET Nickel cyanide Octyl epoxy tallate **NCS** Nicotine sulfate OFR Oils, fuel: 4 **NCT** Naphtha: coal tar **OFS** Oils, edible: fish NEA Neodecanoic acid **OFV** Oils, fuel: 5 NFB Nickel fluoroborate OIL Oils: crude NFM Nickel formate OLA Oleic acid OLB NHX Neohexane Oils, miscellaneous: lubricating NIC **Nicotine** OLD Oils, edible: lard NIE o-Nitrotoluene OLM Oleum NIP 3-Nitrophenol OLS Oils, miscellaneous: linseed NKA Nickel acetate OMN Oils, miscellaneous: mineral **NKC** Nickel carbonyl **OMS** Oils, miscellaneous: mineral seal Oils, miscellaneous: motor **NKH** Nickel hydroxide OMT NKS Nickel sulfate ONF Oils, miscellaneous: neatsfoot NLD Naled OOD Oils, fuel: 1-D NMT Nitromethane OOL Oils, edible: olive NNE 1-Nonene OON Oils, fuel: no. 1 NNN Nonanol OPI Oil, misc: pine NNP Nonylphenol OPM Oils, edible: palm NNT Nickel nitrate OPN Oils, edible: peanut NON Nonene OPT Oils, miscellaneous: penetrating NOX Nitrogen tetroxide ORD Oils, miscellaneous: road NPH 4-Nitrophenol ORG Oils, miscellaneous: range NPN 1-Nitropropane ORN Oils, miscellaneous: rosin NPP 2-Nitropropane ORS Oils, miscellaneous: resin NSS Naphtha: stoddard solvent OSB Oils, edible: soya bean NSV Naphtha: solvent OSD Oils, miscellaneous: spindle NTA 2-Nitroaniline OSF Oils, edible: safflower OSP NTB Nitrobenzene Oils, miscellaneous: sperm NTC Nitrosyl chloride OSX Oils, fuel: no. 6 Oils, miscellaneous: spray NTE OSY Nitroethane NTI Naphthenic acids Octanol OTA NTL Nitralin OTB Oils, miscellaneous: turbine NTM Naphthalene **OTC** Oils, edible: tucum NTO Nitrous oxide OTD Oils, fuel: 2-D NTP 2-Nitrophenol OTE 1-Octene **NTR** m-Nitrotoluene OTF Oils, miscellaneous: transformer NTT p-Nitrotoluene OTL Oils, miscellaneous: tall NTX Nitric oxide OTN Oils, miscellaneous: tanner's NVM Naphtha: VM & P OTW Oils, fuel: 2 NXX Nitrogen **OVG** Oils, edible: vegetable OAA Octanoic acid OXA Oxalic acid OAC Oleic acid, sodium salt OXY Oxygen OAL Octyl aldehydes PAA Peracetic acid OAN PAC Phosphoric acid Octane OAP PAD Oleic acid, potassium salt Propionaldehyde OAS Oils, miscellaneous: absorption PAH Propionic anhydride OCA Oils, edible: castor PAL n-Propyl alcohol OCC Oils, edible: coconut PAM 2-Propanolamine OCF Oils: clarified PAN Phthalic anhydride OCN Oil. misc: cashew nut shell PAS Potassium arsenate OCR PAT Oils, miscellaneous: croton n-Propyl acetate ocs Oils, edible: cottonseed **PBO** Potassium binoxalate OCT Oils, miscellaneous: coal tar **PBP** Propylene butylene polymer ODP Octyl decyl phthalate PBR Phosphorus tribromide

PBZ

n-Propylbenzene

ODS

Oils: diesel

PPT **PCB** Polychlorinated biphenyl Phosphorus trichloride PPW PCE Pentachloroethane Phosphorus, white PCH Potassium chromate PPZ Piperazine n-Propylamine PCL PRA Perchloric acid Perchloromethyl mercaptan **PRC** n-Propyl chloride PCM PCN **PRD** Propionitrile **Pyridine PCP** Pentachlorophenol PRE n-Propyl ether **PCR** Potassium chlorate **PRG** Propargite **PDC** Pentadecanol **PRO** Propargyl alcohol **PDE** PRP Propane 1,3-Pentadiene PDH Paraldehyde **PRR Pvrethrins** Phenyldichloroarsine PDL PTA Pentane 1.4-Pentadiene **PDN** PTB Pentaborane PDT Potassium dichloro-s-triazinetrione PTC Potassium cvanide PEB Polyethylene polyamines PTD Potassium dichromate PEN Pentaethylenehexamine PTE 1-Pentene PET Pentaervthritol PTH Potassium hydroxide PFA Paraformaldehyde PTI Potassium iodide **PGA** Pyrogallic acid PTL Petrolatum **PGC** Polypropylene glycol PTM Potassium **PGM** Polypropylene glycol methyl ether PTN Petroleum naphtha **PGN** Propylene glycol methyl ether acetate PTO Parathion PGY PTP Propylene glycol ethyl ether Potassium permanganate PHD PTR Phosdrin Propylene trimer PHE Phenylhydrazine PTS Potassium oxalate **PHG** Phosgene PTT Propylene tetramer PHH Phenylhydrazine hydrochloride PXE 1-Phenyl-1-xylyl ethane PHN Phenol PXP n-Propoxypropanol PII Propyleneimine QNL Quinoline PIN Pinene **RSC** Resorcinol **PLA** n-Propanolamine SAB Sodium alkylbenzenesulfonates **PLB** Polybutene SAC Sulfuric acid, spent PLP Polypropylene SAL Salicylaldehyde PLT beta-Propiolactone SAM Sodium amide **PMA** Phenylmercuric acetate SAR Sodium arsenite **PME** Propylene glycol methyl ether SAS Sodium alkvl sulfates **PMN** n-Propyl mercaptan SAT Sodium fluoroacetate **PNA** Propionic acid Sodium aluminate solution (45% or less) SAU PNE 2-Pentanone SAZ Sodium azide PNI n-Propyl nitrate SBF Sodium bifluoride **PNR** Potassium nitrate SBH Sodium borohydride POA Potassium arsenite SBS Sodium bisulfite POC Pentanoic acid SBT Sorbitol POE Sodium hydroxide solution Potassium oleate SBX POP Potassium peroxide SCD Sodium cacodylate POX Propylene oxide SCH Sodium chromate PPA Polyphosphoric acid SCL Sulfurvl chloride PPB Phosphorus, black SCM Strontium chromate **PPD** Propanedinitrile SCN Sodium cyanide PPE n-Pentyl propionate SCR Sodium dichromate **PPG** Propylene glycol SCY Sodium thiocyanate PPI Polymethylene polyphenyl isocyanate SDA Sodium arsenate PPL Propylene SDB Sodium borate PPO Phosphorus oxychloride SDC Sodium chlorate PPP Phosphorus pentasulfide SDD Sodium chlorate solution

SDF

Sodium fluoride

PPR

Phosphorus, red

SDH	Sodium hydride	TCB	1,2,4-Trichlorobenzene
SDN	Sodium nitrate	TCE	Trichloroethane
SDS	Sodium sulfide	TCF	Trichlorofluoromethane
SDT	Sodium dichloro-s-triazinetrione	TCH	Trichloroacetaldehyde
SDU	Sodium	TCL	Trichloroethylene
SFA	Sulfuric acid	TCM	1,1,2-Trichloroethane
SFC	Sodium ferrocyanide	TCN	1,2,3-Trichloropropane
SFD	Sulfur dioxide	TCO	Tricresyl phosphate (>= 1% ortho isomer)
SFL	Sulfolane	TCP	Tricresyl phosphate (<1% ortho isomer)
SFM	Sulfur monochloride	TCS	Trichlorosilane
SFR	Sodium silicofluoride	TCT	Trichloro-s-triazinetrione
SHC	Sodium hypochlorite	TDA	Toluenediamine
SHD	Sodium hydroxide	TDB	Tetradecylbenzene
SHP	Sodium hypochlorite solution	TDC	1-Tridecene
SHR	Sodium hydrosulfide solution	TDI	Toluene 2,4-diisocyanate
SHX		TDN	Tridecanol
SHA	Sodium hydrogen sulfite solution (35% or		
CL A	less)	TEA	Triethanolamine
SLA	Salicylic acid	TEB	Triethylbenzene
SLD	Selenium dioxide	TEC	Tetrachloroethane
SMB	Sodium 2-mercaptobenzothiazol solution	TED	Tetraethyl dithiopyrophosphate
SML	Sodium methylate	TEG	Triethylene glycol
SNI	Sodium nitrite solution	TEL	Tetraethyl lead
SNT	Sodium nitrite	TEN	Triethylamine
SOX	Sodium oxalate	TEP	Tetraethyl pyrophosphate
SPC	Sodium pentachlorophenate	TES	2,4,5-T esters
SPH	Sodium phosphate, tribasic	TET	Triethylenetetramine
SPP	Sodium phosphate	TFA	Tallow fatty alcohol
SRA	Stearic acid	TFC	Trifluorochloroethylene
SRS	Sucrose	TFE	Tetrafluoroethylene
SSC	Sodium silicate	TFR	Trifluralin
SSE	Sodium selenite	TGC	Tripropylene glycol
SSF	Sodium sulfite	TGD	Triethylene glycol di-(2-ethylbutyrate)
STC	Silicon tetrachloride	TGE	Triethylene glycol ethyl ether
STF	Stannous flouride	TGM	Tripropylene glycol methyl ether
STN	Strontium nitrate	TGY	Triethylene glycol methyl ether
STO	Selenium trioxide	THA	Trimethyl hexamethylene diamine
STR	Strychnine	THB	Thallium carbonate
STS	Sodium thiocyanate solution (56% or less)	THC	Thiocarbamide
STY	Styrene	THF	Tetrahydrofuran
SVA	Silver acetate	THI	Trimethylhexamethylene diisocyanate
SVC	Silver carbonate	THN	Tetrahydronaphthalene
SVF	Silver fluoride	THR	Thiram
SVI	Silver iodate	TIA	Triisobutylaluminum
SVN	Silver nitrate	TIB	Triisobutylene
SVO	Silver oxide	TIP	Triisopropanolamine
SVS	Silver sulfate	TLA	Thallium acetate
SXX	Sulfur	TLI	o-Toluidine
TAA	Trimethylacetic acid	TLO	Tallow
TAL	Triethylaluminum	TMA	Trimethylamine
TAP	p-Toluenesulfonic acid	TMC	Trimethylchlorosilane
TAS	2,4,5-Trichlorophenoxyacetic acid, sodium	TME	1,2,4-Trimethylbenzene
. ,	salt	TML	Tetramethyl lead
TBP	Tributyl phosphate	TMP	1-Isobutyrate
TBT	Tetrabutyl titanate	TNA	Tannic acid
TBZ	1,2,3-Trichlorobenzene	TNI	Thallium nitrate
TCA	2,4,5-Trichlorophenoxyacetic acid	TNM	Tetranitromethane
. 5, (=, .,o inclinatophoniony accello acid	4.41	. J. G. Harris and Ho

TOD TOF TOI TOP TOI TOP TPG TPH TPO TPP TPS TRD TRN TRP TSU TTF TTG TTN	p-Toluidine Tall oil, fatty acid m-Toluidine Toluene 2-(2,4,5-Trichlorophenoxy) propanoic acid Isooctyl ester Thiophosgene Trichlorophenol Triethyl phosphite Tris(Aziridinyl)phosphine oxide Trimethyl phosphite Triethyl phosphate Tridecylbenzene Trichlorfon Tridecane Tripropylamine Thorium nitrate Trixylenyl phosphate Thallium sulfate 1,2,3,5-Tetramethylbenzene 1-Tetradecene Tetrachloroethylene 1,1,2-Trichloro-1,2,2-trifluoroethane Tetradecanol	VTS WCA WPF WSL XLM XLO XLP XYL ZAC ZBC ZBC ZCB ZCB ZCC ZCC ZCC ZCC ZCC ZC	Vinyltrichlorosilane Waxes: carnauba Waxes: paraffin White spirit (low (15-20%) aromatic) m-Xylene o-Xylene p-Xylene Xylenol Zinc ammonium chloride Zinc arsenate Zinc bichromate Zinc borate Zinc bromide Zirconium acetate Zinc carbonate Zinc chloride Zinc cyanide Zinc cyanide Zirconium oxychloride Zinc chromate Zinc chromate Zinc dialkyldithiophosphate Zectran Zinc fluoroborate Zinc fluoride
TTP	Tetradecanol Tetraethylenepentamine	ZHS	Zinc hydrosulfite
TTT	Titanium tetrachloride	ZIR	Zirconium nitrate
TXP	Toxaphene	ZNA	Zinc acetate
UAN UAS	Uranyl nitrate Urea, ammonium nitrate soln (w/aqua	ZNT ZPC	Zinc nitrate Zinc potassium chromate
0/10	ammonia)	ZPF	Zirconium potassium flouride
UDA	Undecanoic acid	ZPP	Zinc phosphide
UDB	n-Undecylbenzene	ZPS	Zinc phenolsulfonate
UDC	1-Undecene	ZSF	Zinc sulfate
UND	Undecanol	ZSL	Zinc silicofluoride
UPO URA	Urea peroxide		
URE	Uranyl acetate Urea		
URP	Uranium peroxide		
URS	Uranyl sulfate		
VAL	Valeraldehyde		
VAM	Vinyl acetate		
VBL	Vanillan black liquor		
VCH	Vinylcyclohexene		
VCI	Vinylidene chloride		
VCM	Vinyl chloride		
VEE	Vinyl ethyl ether		
VFI	Vinyl fluoride		
VME	Vinyl methyl ether		
VND	Vinyl neodecanoate		
VNO	Vanadium oxide		
VNT	Vinyl toluene		
VOT	Vanadium oxytrichloride		
VOX	Vanadium pentoxide		
VSF	Vanadyl sulfate		

10. DATA SOURCES

The source of every item of data contained in section 11 is recorded in master data files and is available on request. The principal sources are listed below. Many other sources were consulted, but most of them provided only a few items and are not given here. In a few cases the information given is based on an analogy with that for a closely related chemical; the analogy was drawn by an expert in the field, whose identity appears in the master data files.

Where a source was used for a single category of data, the source is given in Section 3 ("Explanation of Terms") and is not repeated here.

10.1 GENERAL SOURCES

The following sources contained data for many of the 13 data categories used:

- 1. Manufacturers' Technical Bulletins This is usually the best single source of general information about the chemical. The bulletins contain the most recent data. Bulletins were not available for a few chemicals that are not items of commerce but are intermediates shipped from one manufacturing site to another.
- 2. Material Safety Data Sheets These were provided by the manufacturer using the U.S.Department of Labor Form OSHA-20 or an approved modification.
- 3. Code of Federal Regulations Office of the Federal Register, Archives and Record Service, Washington, D.C.,1972. Titles 46 (Shipping) and 49 (Transportation) were used in the most recent revision available, October 1, 1996.
- 4. Chemical Safety Data Sheets Chemical Manufacturers Association, Washington, D.C.
- 5. Industrial Safety Sheets National Safety Council, Chicago, Illinois.
- 6. International Maritime Dangerous Goods Code International Maritime Organization (IMO), London, January 1, 1990.
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- 10. Industrial Chemicals W.L. Faith, D.B. Keyes, and R.L. Clark, 3rd edition, Wiley, New York, 1965.
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- 12. Chemical Rocket/Propellant Hazards CPIA Publication No. 194, Vol. III, 1970.
- 13. Organic Solvents J.A. Riddick and W.B. Bunger, 3rd edition, Wiley-Interscience, New York, 1970.
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- 16. Matheson Gas Data Book 5th edition, Matheson Gas Products, East Rutherford, New Jersey, 1971.
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- 18. Dangerous Properties of Industrial Materials, 7th edition, N.I. Sax, Van Nostrand Reinhold Company, New York, 1989.
- 19. Organic Phosphorus Compounds G.M. Kosolapoff and L. Maier (6 Vols.), Wiley-Interscience, New York.
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- 2. Toxicity and Metabolism of Industrial Solvents E. Browning, Elsevier, New York, 1965.
- 3. Practical Toxicology of Plastics R. Lefaux, CRC Press, Cleveland, Ohio, 1968.
- 4. Industrial Toxicology L.T. Fairhall, Williams and Wilkins, 2nd edition, Baltimore, Maryland, 1957.
- 5. Toxicology of Drugs Chemicals W.B. Deichman and H.W. Girarde, Academic Press, New York, 1969.
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- 7. Handbook of Toxicology: Acute Toxicities of Solids, Liquids and Gases to Laboratory Animals W.S. Spector, Saunders, Philadelphia, Pa., 1956.
- 8. Occupational Diseases: A Guide to their Recognition U.S. Department of Health, Education, and Welfare. Public Health Service Publication No. 1097. Superintendent of Documents, Washington, D.C., 1964.

- 9. First Aid Textbook American National Red Cross, Washington, D.C., 1972.
- 10. Electrical Safety Practice: Odor Warning for Safety Monograph 113 Instrument Society of America (ISA), Pittsburgh, Pa., 1972.
- 11. Toxic Substances Annual List 1971 H.E. Christensen, U.S. Department of Health, Education, and Welfare, Superintendent of Documents, Washington, D.C., 1971.
- 12. Hygienic Guide Series American Industrial Hygiene Association, Detroit, Michigan, 48227.
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