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DEPARTMENT OF HEALTH
CHARLESTON 25305

NOTICE OF AGENCY APPROVAL

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LEGISLATIVE RULE: Hazardous Substances, Chapter 16-31, Series 50, 1986.

The attached legislative rule constitutes the official rule approved by the Director of the West Virginia Department of Health on 2nd day of December, 1985 and filed pursuant to law with the West Virginia Secretary of State and the Legislative Rule-Making Review Committee.

David K. Heydinger, M.D.
Director of Health

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PROPOSED

WEST VIRGINIA DIRECTOR OF HEALTH
LEGISLATIVE RULES

Chapter 18-31
Series 50
1986

HAZARDOUS SUBSTANCES

FOR FILING WITH THE
LEGISLATIVE RULE-MAKING COMMITTEE

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WEST VIRGINIA DIRECTOR OF HEALTH
LEGISLATIVE RULES

Hazardous Substances

Chapter 16-31
Series 50
1988

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Chapter 16-31
Series 50
1988

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Title: Hazardous Substances

Section 1. General

1.1. Scope - This legislative rule establishes a list of hazardous substances posing health hazards and includes a definition of hazardous substances posing physical hazards, all as required by Chapter 16, Article 31, Section 4(a) of the West Virginia Code.

1.2. Authority - This rule is issued under the authority of and is related to Chapter 16, Article 31 of the West Virginia Code.

1.3. Filing Date -

1.4. Effective Date -

Section 2. Application and Enforcement

2.1. Application and enforcement of this rule are vested with the director of the West Virginia department of health or his lawful designee.

Section 3. Definitions

3.1. Hazardous Substance - any element, chemical compound or mixture of elements and/or compounds which is a physical hazard as defined herein or is listed by [1] The Federal Occupational Safety and Health Administration [OSHA] in 29 Code of Federal Regulations Part 1910.1000 through 1910.1045, Subpart Z, as in effect January 1, 1985; or by [2] The American Conference of Governmental Industrial Hygienists [ACGIH] in "Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environment", as in effect January 1, 1985; or by [3] The National Toxicology Program [NTP] in "Annual Report on Carcinogens" as in effect January 1, 1985.

3.2. Physical Hazard - a chemical for which there is scientifically valid evidence that it is a combustible liquid, a compressed gas, explosive, flammable, an organic peroxide, an oxidizer, pyrophoric, unstable [reactive] or water reactive.

3.3. Combustible liquid - Any liquid having a flashpoint at or above 100°F [37.8°C], but below 200°F [93.3°C], except any mixture having components with flashpoints of 200°F [93.3°C], or higher, the total volume of which make up 99 percent or more of the total volume of the mixture.

3.4. Compressed gas - (1) A gas or mixture of gases having, in a container, an absolute pressure exceeding 40 psi at 70°F [21.1°C]; or (2) A gas or mixture of gases having, in a container, an absolute pressure exceeding 104 psi at 130°F [54.4°C] regardless of the pressure at 70°F [21.1°C]; or (3) A liquid having a vapor pressure exceeding 40 psi at 100°F [37.8°C] as determined by ASTM D-328-72.

3.5. Explosive - A chemical that causes a sudden, almost instantaneous release of pressure, gas, and heat when subjected to sudden shock, pressure, or high temperatures.

3.6. Flammable - a chemical that falls into one of the following categories:

3.6.1. Flammable Aerosol - An aerosol that, when tested by the method described in 16 Code of Federal Regulations section 1500.45, yields a flame projection exceeding eighteen inches at full valve opening, or a flashback [a flame extending back to the valve] at any degree of valve opening.

3.6.2. Flammable Gas - (a.) A gas that, at ambient temperature and pressure, forms a flammable mixture with air at a concentration of thirteen [13] percent by volume or less; or (b.) A gas that, at ambient temperature and pressure, forms a range of flammable mixtures with air wider than twelve [12] percent by volume, regardless of the lower limit.

3.6.3. Flammable Liquid - Any liquid having a flashpoint below 100°F [37.8°C], except any mixture mixture having components with flashpoints of 100°F [47.8°C] or higher, the total of which make up ninety-nine percent or more of the total volume of the mixture.

3.6.4. Flammable Solid - A solid, other than a blasting agent or explosive as defined in 29 Code of Federal Regulations section 1910.109(a), that is liable to cause fire through friction, absorption of moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which can be ignited readily and when ignited burns so vigorously and persistently as to create a serious hazard. A chemical shall be considered to be a flammable solid if, when tested by the method described in 16 Code of Federal Regulations section 1500.44, it ignites and burns with a self-sustaining flame at a rate greater than one tenth of an inch per second along its major axis.

3.7. Organic Peroxide - An organic compound that contains the bivalent -O-O- structure and which may be considered to be a structural derivative of hydrogen peroxide where one or both of the hydrogen atoms has been replaced by an organic radical.

3.8. Oxidizer - A chemical other than a blasting agent or explosive as defined in 29 Code of Federal Regulations part 1910.109(a), that initiates or promotes combustion in other materials, thereby causing fire either by itself or through the release of oxygen or other gases.

3.9. Pyrophoric - A chemical that will ignite spontaneously in air at a temperature of 130°F [54.4°C] or below.

3.10. Unstable [reactive] - A chemical which in the pure state, or as produced or transported, will vigorously polymerize, decompose, condense, or will become self-reactive under conditions of shocks, pressure or temperature.

3.11. Water-reactive - A chemical that reacts with water to release a gas that is either flammable or presents a health hazard.

Section 4. Hazardous Substances - Generally

4.1. The director of health has developed a comprehensive list of the names of hazardous substances posing a health hazard that contains all of the substances listed in the three publications defined in section 3.1. This list of hazardous substance names appears in section 5.

4.1.1. The list in section 5 does not include every possible synonym or common name for these hazardous substances. For several substances in section 5, the name specifically includes more than a single compound, and, in these cases, all such compounds are hazardous substances.

4.1.2. The list in section 5 also provides the substance's Chemical Abstract Service (CAS) number and the source of the publication(s) which cited the substance: [A] the Occupational Safety and Health Administration (OSHA), [B] the American Conference of Governmental Industrial Hygienists (ACGIH), or [C] the National Toxicology Program (NTP).

4.1.3. The CAS numbers in section 5 are provided only as a guide. If there exists any conflict between the name of the hazardous substance and the CAS number, the name shall prevail.

4.2. The director of health has also developed an index by CAS number as a guide to the identification of these hazardous substances. This index of hazardous substances by CAS number appears in section 6.

4.2.1. For several hazardous substances, the CAS number refers only to the principal element or compound while the name specifically includes additional compounds. Therefore, the index in section 6 cannot fully substitute for the list of hazardous substances in section 5.

4.2.2. The index of hazardous substances by CAS number in section 6 is provided only as a guide. If there exists any conflict between section 5 and section 6, section 5 shall prevail.

4.3. A list of those hazardous substances with no CAS number appears in section 7. An eight digit identifier has been assigned for use internally by the West Virginia department of health.

Section 5. Hazardous Substances List - Health Hazard

| Hazardous Substance | CAS Number | ABC |
|--------------------------------|----------------------------|-----|
| Abate | 9383-96-8 | * |
| Acetaldehyde | 75-07-0 | ** |
| Acetic acid | 64-19-7 | ** |
| Acetic anhydride | 108-24-7 | ** |
| Acetone | 67-64-1 | ** |
| Acetonitrile | 75-05-8 | ** |
| Acetylene dichloride | see 1,2-Dichloroethylene | |
| 2-Acetylaminofluorene | 53-96-3 | * * |
| Acetylene tetrabromide | 78-27-6 | ** |
| Acetylsalicylic acid | 50-78-2 | * |
| Acrolein | 107-02-8 | ** |
| Acrylamide | 78-06-1 | ** |
| Acrylic acid | 78-10-7 | * |
| Acrylonitrile | 107-13-1 | *** |
| Aflatoxins | 1402-88-2 | * |
| Aldrin | 309-00-2 | ** |
| Allyl alcohol | 107-18-6 | ** |
| Allyl chloride | 107-05-1 | ** |
| Allyl glycidyl ether [AGE] | 106-92-3 | ** |
| Allyl propyl disulfide | 2179-59-1 | ** |
| alpha-Alumina | see Aluminum oxide | |
| Aluminum and compounds | 7429-90-5 | * |
| Aluminum oxide | 1344-28-1 | * |
| 2-Aminoanthraquinone | 117-79-3 | * |
| 4-Aminobiphenyl | 92-67-1 | *** |
| 2-Aminoethanol | see Ethanolamine | |
| 1-Amino-2-methylantraquinone | 82-28-0 | * |
| 2-Aminopyridine | 504-29-0 | ** |
| 3-Amino-1,2,4-triazole | 81-82-5 | ** |
| Amitrole | see 3-Amino-1,2,4-triazole | |
| Ammonia | 7884-41-7 | ** |
| Ammonium chloride | 12125-02-9 | * |
| Ammonium persulfate | see Persulfate, ammonium | |
| Ammonium sulfate [Ammate] | 7773-06-0 | ** |
| n-Amyl acetate | 828-63-7 | ** |
| sec-Amyl acetate | 828-38-0 | ** |
| Aniline and homologues | 62-53-3 | ** |
| Anisidine [o,p isomers] | 29191-52-4 | *** |
| Antimony and compounds | 7440-38-0 | ** |
| ANTU [alpha-Naphthyl thiourea] | 86-88-4 | ** |
| Aramite | 140-57-8 | * |
| Arsenic and compounds | 7440-38-2 | *** |
| Arsine | 7784-42-1 | ** |
| Asbestos | 1332-21-4 | *** |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| Asphalt | 8052-42-4 | * |
| Atrazine | 1912-24-9 | * |
| Azinphos-methyl | 86-50-0 | ** |
| Barium compounds [soluble] | 7440-39-3 | ** |
| Baygon | 114-26-1 | * |
| Baytex see Fenthion | | |
| Benoxyl | 17804-35-2 | * |
| Benz[a]anthracene | 56-55-3 | * |
| Benzene | 71-43-2 | *** |
| Benzidine | 92-87-5 | *** |
| Benzo[b]fluoranthene | 205-89-2 | * |
| Benzo[a]pyrene | 50-32-8 | * |
| p-Benzoquinone see Quinone | | |
| Benzoyl peroxide | 94-36-0 | ** |
| Benzyl chloride | 100-44-7 | ** |
| Beryllium and compounds | 7440-41-7 | ** |
| Biphenyl | 92-52-4 | ** |
| N,N-Bis[2-chloroethyl]-2-naphthylamine | 494-03-1 | * |
| Bismuth telluride | 1304-82-1 | * |
| Borates, tetra, sodium salts | 1303-96-4 | * |
| Boron oxide | 1303-86-2 | ** |
| Boron tribromide | 10294-33-4 | * |
| Boron trifluoride | 7637-07-2 | ** |
| Bromacil | 314-40-9 | * |
| Bromine | 7728-95-6 | ** |
| Bromine pentafluoride | 7789-30-2 | * |
| Bromochloromethane see Chlorobromomethane | | |
| Bromoform | 75-25-2 | ** |
| Butadiene [1,3-Butadiene] | 106-89-0 | ** |
| Butane | 106-97-8 | * |
| Butanethiol see Butyl mercaptan | | |
| 2-Butanone see Methyl ethyl ketone | | |
| 2-Butoxyethanol | 11-76-2 | ** |
| n-Butyl acetate | 123-86-4 | ** |
| sec-Butyl acetate | 105-46-4 | ** |
| tert-Butyl acetate | 540-88-5 | ** |
| n-Butyl acrylate | 141-32-2 | * |
| n-Butyl alcohol | 71-36-3 | ** |
| sec-Butyl alcohol | 78-92-2 | ** |
| tert-Butyl alcohol | 75-85-0 | ** |
| n-Butylamine | 109-73-9 | ** |
| tert-Butyl chromate | 1189-85-1 | ** |
| n-Butyl glycidyl ether | 2426-08-6 | ** |
| n-Butyl lactate | 138-22-7 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| n-Butyl mercaptan | 109-79-5 | ** |
| o-sec-Butylphenol | 89-72-5 | * |
| p-tert-Butyltoluene | 98-51-1 | ** |
| Cadmium and compounds | 7440-43-9 | *** |
| Calcium cyanamide | 156-62-7 | * |
| Calcium hydroxide | 1305-62-0 | * |
| Calcium oxide | 1305-78-8 | ** |
| Camphor | 76-22-2 | ** |
| Caprolactam | 105-60-2 | * |
| Captafol | 2425-06-1 | * |
| Captan | 133-06-2 | * |
| Carbaryl [Sevin] | 63-25-2 | ** |
| Carbofuran | 1563-66-2 | * |
| Carbon black | 7440-44-0 | ** |
| Carbon dioxide | 124-38-9 | ** |
| Carbon disulfide | 75-15-0 | ** |
| Carbon monoxide | 630-08-0 | ** |
| Carbon tetrabromide | 558-13-4 | * |
| Carbon tetrachloride | 56-23-5 | *** |
| Carbonyl chloride see Phosgene | | |
| Carbonyl fluoride | 353-50-4 | * |
| Catechol [Pyrocatechol] | 120-80-9 | * |
| Cesium hydroxide | 21351-79-1 | * |
| Chlorambucil | 305-03-3 | * |
| Chlordane | 57-74-9 | ** |
| Chlorinated camphene | 8001-35-2 | ** |
| Chlorinated diphenyl oxide | 55720-99-5 | ** |
| Chlorine | 7782-50-5 | ** |
| Chlorine dioxide | 10049-04-4 | ** |
| Chlorine trifluoride | 7790-91-2 | ** |
| Chloroacetaldehyde | 107-20-0 | ** |
| alpha-Chloroacetophenone [Phenacyl chloride] | 532-27-4 | ** |
| Chloroacetyl chloride | 79-04-9 | * |
| Chlorobenzene | 108-90-7 | ** |
| o-Chlorobenzylidene malononitrile [OCBM] | 2698-41-1 | ** |
| Chlorobromomethane | 74-87-5 | ** |
| 2-Chloro-1,3-butadiene see beta-Chloroprene | | |
| Chlorodifluoromethane | 75-45-6 | * |
| Chlorodiphenyl [42% chlorine] [PCB] | 53449-21-9 | ** |
| Chlorodiphenyl [54% chlorine] [PCB] | 11097-69-1 | ** |
| 1-Chloro-2,3-epoxy-propane see Epichlorhydrin | | |
| 2-Chloroethanol see Ethylene chlorohydrin | | |
| Chloroethylene see Vinyl chloride | | |
| Chloroform | 67-66-3 | *** |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--------------------------------------|---|-----|
| bis[Chloromethyl]ether | 542-88-1 | *** |
| 1-Chloro-1-nitropropane | 600-25-9 | ** |
| Chloropentafluoroethane | 76-15-3 | * |
| Chloropicrin | 76-08-2 | ** |
| beta-Chloroprene | 126-99-8 | ** |
| 2-Chloropropionic acid | 598-78-7 | * |
| o-Chlorostyrene | 1831-28-8 | * |
| o-Chlorotoluene | 95-49-8 | * |
| 2-Chloro-6-[trichloromethyl]pyridine | 1929-82-4 | * |
| Chloropyrifos | 2821-88-2 | * |
| Chromium and compounds | 7440-47-3 | *** |
| Chromyl chloride | 14977-61-8 | * |
| Clopidol | 2971-90-6 | * |
| Coal dust | ----- | ** |
| Coal tar pitch volatiles | 8007-45-2 | ** |
| Cobalt | 7440-48-4 | ** |
| Cobalt carbonyl | 10210-68-1 | * |
| Cobalt hydrocarbonyl | 18842-03-8 | * |
| Coke oven emissions | ----- | * * |
| Copper | 7440-50-8 | ** |
| Cotton dust | ----- | ** |
| Crag herbicide | see Sodium 2,4-dichlorophenoxyethyl sulfate | |
| p-Cresidine | 120-71-8 | * |
| Cresol [all isomers] | 1319-77-3 | ** |
| m-Cresol | 108-39-4 | ** |
| o-Cresol | 95-48-7 | ** |
| p-Cresol | 106-44-5 | ** |
| Cristobalite | 14484-48-1 | * |
| Crotonaldehyde | 123-73-9 | ** |
| Crufomate | 299-86-5 | * |
| Cumene | 98-82-8 | ** |
| Cupferron | 135-20-6 | * |
| Cyanamide | 420-04-2 | * |
| Cyanide, potassium | 151-50-8 | ** |
| Cyanide, sodium | 143-33-9 | ** |
| Cyanogen | 460-19-5 | * |
| Cyanogen chloride | 506-77-4 | * |
| Cycasin | 14901-08-7 | * |
| Cyclohexane | 110-82-7 | ** |
| Cyclohexanol | 108-93-0 | ** |
| Cyclohexanone | 108-94-1 | ** |
| Cyclohexene | 110-83-8 | ** |
| Cyclohexylamine | 108-91-8 | * |
| Cyclonite | 121-82-4 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| Cyclopentadiene | 542-92-7 | ** |
| Cyclopentane | 287-92-3 | * |
| Cyclophosphamide | 50-18-0 | * |
| Cyhexatin see Tricyclohexyltin hydroxide | | |
| 2,4-D [2,4-Dichlorophenoxyacetic acid] | 94-75-7 | ** |
| DDT [Dichlorodiphenyltrichloroethane] | 50-29-3 | * |
| DDVP see Dichlorvos | | |
| Decaborane | 17702-41-9 | ** |
| Demeton | 8085-48-3 | ** |
| Diacetone alcohol | 123-42-2 | ** |
| 2,4-Diaminoanisole sulfate | 39156-41-7 | * |
| 1,2-Diaminoethane see Ethylenediamine | | |
| 2,4-Diaminotoluene | 95-80-7 | * |
| Distomaceous earth | ----- | ** |
| Diazinon | 333-41-5 | * |
| Diazomethane | 334-88-3 | ** |
| Dibenz[a,h]acridine | 226-36-8 | * |
| Dibenz[a,j]acridine | 224-42-0 | * |
| Dibenz[a,h]anthracene | 53-70-3 | * |
| 7H-Dibenzo[c,g]carbazole | 207-84-1 | * |
| Dibenzo[a,h]pyrene | 188-64-0 | * |
| Dibenzo[a,i]pyrene | 189-55-9 | * |
| Diborane | 19287-45-7 | ** |
| 1,2-Dibromosthane see Ethylene dibromide | | |
| Dibrom | 900-76-5 | * |
| 1,2-Dibromo-3-chloropropane [DBCP] | 96-12-8 | ** |
| 2-N-Dibutylaminoethanol | 102-81-8 | * |
| Dibutyl phosphate | ----- | ** |
| Dibutyl phthalate | 84-74-2 | ** |
| Dichloroacetylene | 7572-29-4 | * |
| o-Dichlorobenzene | 85-50-1 | ** |
| p-Dichlorobenzene | 106-48-7 | ** |
| 3,3'-Dichlorobenzidine, and salts | 91-94-1 | *** |
| Dichlorodifluoromethane | 75-71-8 | ** |
| 1,3-Dichloro-5,5-dimethyl hydantoin | 118-52-5 | ** |
| 1,1-Dichloroethane | 75-34-3 | ** |
| 1,2-Dichloroethane see Ethylene Dichloride | | |
| 1,1-Dichloroethylene see Vinylidene chloride | | |
| 1,2-Dichloroethylene | 540-59-0 | ** |
| Dichloroethyl ether | 111-44-4 | ** |
| Dichlorofluoromethane | 75-43-4 | ** |
| Dichloromethane see Methylene chloride | | |
| 1,1-Dichloro-1-nitroethane | 594-72-9 | ** |
| 1,2-Dichloropropane see Propylene dichloride | | |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| 1,3-Dichloropropene | 542-75-6 | * |
| 2,2-Dichloropropionic acid | 75-89-0 | * |
| Dichlorotetrafluoroethane | 76-14-2 | ** |
| Dichlorvos | 62-78-7 | ** |
| Dicrotophos | 141-66-2 | * |
| Dicyclopentadiene | 77-73-6 | * |
| Dicyclopentadienyl iron | 102-54-5 | * |
| Dieldrin | 60-57-1 | ** |
| Diapoxybutane | 1464-53-5 | * |
| Diethanolamine | 111-42-2 | * |
| Diethylamine | 109-89-7 | ** |
| Diethylamino ethanol | 100-37-8 | ** |
| Diethylene triamine | 111-40-0 | * |
| Diethyl ether see Ethyl ether | | |
| Di-2-ethylhexyl phthalate | 117-81-7 | * |
| Diethyl ketone | 96-22-0 | * |
| Diethyl phthalate | 84-66-2 | * |
| Diethylstilbestrol [DES] | 58-53-1 | * |
| Difluorodibromomethane | 75-61-6 | ** |
| Diglycidyl ether [DGE] | 2238-07-5 | ** |
| Dihydroxybenzene see Hydroquinone | | |
| Diisobutyl ketone | 108-83-8 | ** |
| Diisopropylamine | 108-18-8 | * |
| 3,3'-Dimethoxybenzidine | 118-80-4 | * |
| Dimethoxymethane see Methylal | | |
| Dimethyl acetamide | 127-19-5 | ** |
| Dimethylamine | 124-40-3 | ** |
| 4-Dimethylaminoazobenzene | 60-11-7 | * * |
| Dimethylaminobenzene see Xylidene | | |
| Dimethylaniline | 121-89-7 | ** |
| Dimethylbenzene see Xylene | | |
| 3,3'-Dimethylbenzidine see o-Tolidine | | |
| Dimethyl carbamoyl chloride | 79-44-7 | ** |
| Dimethyl carbamyl chloride see Dimethyl carbamoyl chloride | | |
| Dimethyl-1,2-dibromo-2,2-dichloroethylphosphate see Dibrom | | |
| Dimethyl formamide | 68-12-2 | ** |
| 2,6-Dimethyl-4-heptanone see Diisobutyl ketone | | |
| 1,1-Dimethylhydrazine | ----- | ** |
| Dimethylphthalate [DMP] | 131-11-3 | ** |
| Dimethyl sulfate | 77-78-1 | *** |
| Dinitolamide see 3,5-Dinitro- <i>o</i> -toluamide | | |
| Dinitrobenzene [all isomers] | 25154-54-5 | ** |
| <i>m</i> -Dinitrobenzene | 89-65-0 | * |
| <i>o</i> -Dinitrobenzene | 528-29-0 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| p-Dinitrobenzene | 100-25-4 | * |
| Dinitro-o-cresol | 2312-76-2 | ** |
| 3,5-Dinitro-o-toluamide | 148-01-6 | * |
| Dinitrotoluene | 25821-14-6 | ** |
| Dioxane [Diethylene dioxide] | 123-91-1 | *** |
| Dioxathion | 78-34-2 | * |
| Diphenyl see Biphenyl | | |
| Diphenylamine | 122-39-4 | * |
| Diphenylmethane diisocyanate see Methylene bisphenyl isocyanate | | |
| Dipropylene glycol methyl ether | 34590-94-8 | ** |
| Dipropyl ketone | 123-19-3 | * |
| Diquat | 85-00-7 | * |
| Direct Black 38 | 1937-37-7 | * |
| Direct Blue 6 | 2602-46-2 | * |
| Di-sec, octyl phthalate see Di-2-ethylhexyl phthalate | | |
| Disulfiram | 97-77-8 | * |
| Disulfoton | 298-04-4 | * |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | * |
| Diuron | 330-54-1 | * |
| Divinyl benzene | 108-57-6 | * |
| Dyfonate | 844-22-8 | * |
| Emery | 112-62-9 | * |
| Endosulfen | 115-28-7 | * |
| Endrin | 72-20-8 | ** |
| Enflurane | 13838-16-9 | * |
| Epichlorohydrin | 106-89-8 | ** |
| EPN | 2104-64-5 | ** |
| 1,2-Epoxypropane see Propylene oxide | | |
| 2,3-Epoxy-1-propanol see Glycidol | | |
| Ethanethiol see Ethyl mercaptan | | |
| Ethanolamine | 141-43-5 | ** |
| Ethion | 563-12-2 | * |
| 2-Ethoxyethanol | 110-80-5 | ** |
| 2-Ethoxyethyl acetate [Cellosolve acetate] | 111-15-9 | ** |
| Ethyl acetate | 141-78-6 | ** |
| Ethyl acrylate | 140-88-5 | ** |
| Ethyl alcohol [Ethanol] | 64-17-5 | ** |
| Ethylamine | 75-04-7 | ** |
| Ethyl amyl ketone | 541-85-5 | ** |
| Ethyl benzene | 100-41-4 | ** |
| Ethyl bromide | 74-98-4 | ** |
| Ethyl butyl ketone | 108-35-4 | ** |
| Ethyl chloride | 75-00-3 | ** |
| Ethylene chlorohydrin | 107-07-3 | ** |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|-------------------------------|-----|
| Ethylenediamine | 107-15-3 | ** |
| Ethylene dibromide [EDB] | 106-98-4 | *** |
| Ethylene dichloride | 107-06-2 | ** |
| Ethylene glycol | 107-21-1 | * |
| Ethylene glycol dinitrate [Nitroglycerin] | 628-96-6 | ** |
| Ethylene glycol monomethyl ether acetate | see Methyl cellosolve acetate | |
| Ethylene oxide | 75-21-8 | ** |
| Ethylene thiourea | 96-45-7 | * * |
| Ethylenimine | 151-58-4 | ** |
| Ethyl ether | 80-29-7 | ** |
| Ethyl formate | 109-94-4 | ** |
| Ethylidene chloride | see 1,1-Dichloroethane | |
| Ethylidene norbornene | 18219-75-3 | * |
| Ethyl mercaptan | 75-08-1 | ** |
| N-Ethylmorpholine | 100-74-3 | ** |
| Ethyl silicate | 78-10-4 | ** |
| Fenamiphos | 22224-92-6 | * |
| Fensulfotion | 115-90-2 | * |
| Fenthion | 55-38-9 | * |
| Ferbam | 14484-64-1 | ** |
| Ferrovandium dust | 12604-58-9 | ** |
| Fibrous glass dust | ----- | * |
| Fluorides | ----- | ** |
| Fluorine | 7782-41-4 | ** |
| Fluorotrichloromethane | see Trichlorofluoromethane | |
| Fonofos | see Dyfonate | |
| Formaldehyde, and solutions | 50-00-0 | *** |
| Formamide | 75-12-7 | * |
| Formic acid | 64-18-6 | ** |
| Furfural | 98-01-1 | ** |
| Furfuryl alcohol | 98-00-0 | ** |
| Gasoline | 8006-61-9 | * |
| Germanium tetrahydride | 7782-65-2 | * |
| Glass, fibrous | see Fibrous glass dust | |
| Glutaraldehyde | 111-30-8 | * |
| Glycerol | 56-81-5 | * |
| Glycidol [2,3-Epoxy-1-propanol] | 558-52-5 | ** |
| Glycol Monomethyl Ether | see 2-Ethoxyethanol | |
| Grain dust | ----- | * |
| Graphite, natural | ----- | * |
| Graphite, synthetic | ----- | * |
| Guthion | see Azinphosmethyl | |
| Hafnium | 744-58-6 | ** |
| Halothane | 151-67-7 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| Heptachlor | 75-44-8 | ** |
| Heptane | 142-82-5 | ** |
| 2-Heptanone see Methyl n-amyl ketone | | |
| 3-Heptanone see Ethyl butyl ketone | | |
| Hexachlorobenzene | 118-74-1 | * |
| Hexachlorobutadiene | 76-68-3 | * |
| Hexachlorocyclopentadiene | 77-47-4 | * |
| Hexachloroethane | 67-72-1 | ** |
| Hexachloronaphthalene | 1335-87-1 | ** |
| Hexafluoroacetone | 684-16-2 | * |
| Hexamethyl phosphoramide | 680-31-9 | * |
| Hexane [and isomers] | 110-54-3 | ** |
| 2-Hexanone see Methyl n-butyl ketone | | |
| Hexone see Methyl isobutyl ketone | | |
| sec-Hexyl acetate | 142-92-7 | ** |
| Hexylene glycol | 107-41-5 | * |
| Hydrazine | 302-01-2 | *** |
| Hydrazine sulfate | 10034-93-2 | * |
| Hydrazobenzene | 122-66-7 | * |
| Hydrogenated terphenyls see Terphenyls | | |
| Hydrogen bromide | 10035-10-6 | ** |
| Hydrogen chloride | 7647-01-1 | ** |
| Hydrogen cyanide | 74-90-8 | ** |
| Hydrogen fluoride | 7664-39-3 | ** |
| Hydrogen peroxide | 7722-84-1 | ** |
| Hydrogen selenide | 7783-07-5 | ** |
| Hydrogen sulfide | 7783-06-4 | ** |
| Hydroquinone | 123-31-9 | ** |
| 2-Hydroxypropyl acrylate | 999-81-1 | * |
| Hydrozoic acid see Sodium azide | | |
| Indene | 95-13-6 | * |
| Indeno[1,2,3-cd]pyrene | 193-39-5 | * |
| Indium and compounds | 7440-74-6 | * |
| Iodine | 7553-58-2 | ** |
| Iodoform | 75-47-8 | * |
| Iron dextran complex | 9004-66-4 | * |
| Iron oxide | 1309-37-1 | ** |
| Iron pentacarbonyl | 13463-40-6 | * |
| Iron salts | ----- | * |
| Isoamyl acetate | 123-92-2 | ** |
| Isoamyl alcohol | 123-51-3 | ** |
| Isobutyl acetate | 110-19-0 | ** |
| Isobutyl alcohol | 78-83-1 | ** |
| Isooctyl alcohol | 26952-21-6 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| Isophorone | 78-59-1 | ** |
| Isophorone diisocyanate | ----- | * |
| 2-Isopropoxyethanol | 109-59-1 | * |
| Isopropyl acetate | 108-21-4 | ** |
| Isopropyl alcohol | 67-63-0 | ** |
| Isopropylamine | 75-31-0 | ** |
| N-Isopropylaniline | 649-28-7 | * |
| Isopropyl ether | 108-20-3 | ** |
| Isopropyl glycidyl ether | 4016-14-2 | ** |
| Kepone [chlordecone] | 143-50-0 | * |
| Ketene | 463-51-4 | ** |
| Lead, inorganic lead compounds, and lead soaps | 7439-92-1 | ** |
| Lead acetate | 301-04-2 | * |
| Lead arsenate | 10102-48-4 | * |
| Lead chromate | 18454-12-1 | * |
| Lead phosphate | 7446-27-7 | * |
| Lindane & isomers | 58-89-9 | *** |
| Liquified petroleum gas [LPG] | ----- | ** |
| Lithium hydride | 7580-67-8 | ** |
| Magnesium oxide fume | 1309-48-4 | ** |
| Malathion | 121-75-5 | ** |
| Maleic anhydride | 108-31-6 | ** |
| Manganese [and compounds] | 7439-98-5 | ** |
| Manganese cyclopentadienyl tricarbonyl | 12108-13-3 | * |
| Manganese tetroxide | ----- | * |
| Melphalan | 148-82-3 | * |
| Mercury and compounds | 7439-97-6 | ** |
| Mesityl oxide | 141-79-7 | ** |
| Methacrylic acid | 79-41-4 | * |
| Methanethiol see Methyl mercaptan | | |
| Methomyl | 16752-77-5 | * |
| Methoxychlor | 72-43-5 | ** |
| 2-Methoxyethanol see Methyl cellosolve | | |
| 2-Methoxyethyl acetate see Methyl cellosolve acetate | | |
| 4-Methoxyphenol | 150-76-5 | * |
| Methyl acetate | 78-20-9 | ** |
| Methyl acetylene | 74-98-7 | ** |
| Methyl acetylene - propadiene mixture | ----- | ** |
| Methyl acrylate | 96-33-3 | ** |
| Methylacrylonitrile | 126-98-7 | * |
| Methylal [Dimethoxymethane] | 109-87-5 | ** |
| Methyl alcohol [Methanol] | 67-58-1 | ** |
| Methylamine | 74-89-5 | ** |
| Methyl amyl alcohol see Methyl isobutyl carbinol | | |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| Methyl n-amyyl ketone | 110-43-0 | * |
| N-Methyl aniline | 100-61-8 | ** |
| Methyl bromide | 74-83-9 | ** |
| Methyl n-butyl ketone | 591-78-6 | ** |
| Methyl cellosolve | 109-86-4 | ** |
| Methyl cellosolve acetate | 110-49-6 | ** |
| Methyl chloride | 74-87-3 | ** |
| Methyl chloroform | 71-55-6 | ** |
| Methyl chloromethyl ether | 107-30-2 | * |
| Methyl 2-cyanoacrylate | 137-05-3 | * |
| Methylcyclohexane | 108-87-2 | ** |
| Methylcyclohexanol | 25639-42-3 | ** |
| o-Methylcyclohexanone | 583-60-8 | ** |
| Methylcyclopentadienyl manganese tricarbonyl | 12108-00-2 | * |
| Methyl demeton | 8022-00-2 | * |
| Methylene bisphenyl isocyanate (MDI) | 101-88-8 | ** |
| Methylene chloride | 75-09-2 | ** |
| 4,4'-Methylene bis[2-chloroaniline] (MOCA) | 101-14-4 | ** |
| Methylene bis[4-cyclohexylisocyanate] | 5124-30-1 | * |
| 4,4'-Methylene bis[n,n-dimethyl]benzenamine | 101-61-1 | * |
| 4,4-Methylene dianiline | 101-77-9 | * |
| Methyl ethyl ketone | 78-93-3 | ** |
| Methyl ethyl ketone peroxide | 1338-23-4 | * |
| Methyl formate | 107-31-3 | ** |
| 5-Methyl-3-heptanone see Ethyl amyyl ketone | | |
| Methyl hydrazine | 60-34-4 | ** |
| Methyl iodide | 74-88-4 | ** |
| Methyl isoamyyl ketone | 110-12-3 | * |
| Methyl isobutyl carbinol | 105-30-6 | ** |
| Methyl isobutyl ketone | 108-10-1 | ** |
| Methyl isocyanate | 824-83-9 | ** |
| Methyl isopropyl ketone | 583-80-4 | * |
| Methyl mercaptan | 74-83-1 | ** |
| Methyl methacrylate | 80-62-6 | ** |
| Methyl parathion | 298-00-0 | * |
| Methyl propyl ketone | 107-87-9 | ** |
| Methyl silicate | 881-84-5 | * |
| alpha-Methyl styrene | 98-83-9 | ** |
| Metribuzin | 21087-64-9 | * |
| Mica | 12001-26-2 | ** |
| Michler's ketone | 90-94-8 | * |
| Mineral wool fiber | | * |
| Mirex | 2385-85-5 | * |
| Molybdenum and compounds | 7439-98-7 | ** |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| Monocrotophos | 8923-22-4 | * |
| Morpholine | 110-91-8 | ** |
| Mustard gas | 505-60-2 | * |
| Naled see Dibrom | | |
| Naphtha, coal tar | ----- | ** |
| Naphthalena | 91-20-3 | ** |
| alpha-Naphthylamine | 134-32-7 | * |
| 2-Naphthylamine [beta-Naphthylamine] | 91-59-8 | *** |
| Nickel and compounds | 7440-02-0 | *** |
| Nickel carbonyl | 13463-39-3 | *** |
| Nicotine | 54-11-5 | ** |
| Nitrapyrin see 2-Chloro-6-(trichloromethyl)pyridine | | |
| Nitric acid | 7697-37-2 | ** |
| Nitric oxide | 10102-43-9 | ** |
| Nitrilotriacetic acid | 139-13-9 | * |
| p-Nitroaniline | 100-01-6 | ** |
| 5-Nitro-o-anisidine | 98-59-2 | * |
| Nitrobenzene | 98-95-3 | ** |
| p-Nitrochlorobenzene | 100-00-5 | ** |
| 4-Nitrodiphenyl [4-Nitrobiphenyl] | 92-93-3 | ** |
| Nitroethane | 78-24-3 | ** |
| Nitrofen | 1836-75-5 | * |
| Nitrogen dioxide | 10102-44-0 | ** |
| Nitrogen trifluoride | 7783-54-2 | ** |
| Nitroglycerin | 55-63-0 | ** |
| Nitromethane | 75-52-5 | ** |
| 1-Nitropropane | 108-03-2 | ** |
| 2-Nitropropane | 79-46-9 | ** |
| N-Nitrosodi-n-butylamine | 924-16-3 | * |
| N-Nitrosodiethanolamine | 1118-54-7 | * |
| N-Nitrosodiethylamine | 55-18-5 | * |
| N-Nitrosodimethylamine | 62-75-9 | *** |
| p-Nitrosodiphenylamine | 156-10-5 | * |
| N-Nitrosodi-n-propylamine | 621-64-7 | * |
| N-Nitroso-n-ethylurea | 759-73-9 | * |
| N-Nitroso-n-methylurea | 684-93-5 | * |
| N-Nitrosomethylvinylamine | 4548-40-0 | * |
| N-Nitrosomorpholine | 59-89-2 | * |
| N-Nitrosornicotina | 16543-55-8 | * |
| N-Nitrosopiperidine | 100-75-4 | * |
| N-Nitrosopyrrolidine | 930-55-2 | * |
| N-Nitrososarcosine | 13256-22-8 | * |
| Nitrotoluene [all isomers] | 1321-12-6 | ** |
| m-Nitrotoluene | 99-06-1 | ** |

Section 5. Hazardous Substances List - Health Hazard [cont.]

| Hazardous Substance | CAS Number | ABC |
|--|------------------------------|-----|
| o-Nitrotoluene | 88-72-2 | ** |
| p-Nitrotoluene | 99-99-0 | ** |
| Nitrotrichloromethane | see Chloropicrin | |
| Nonane | 111-84-2 | * |
| Octachloronaphthalene | 2234-13-1 | ** |
| Octane | 111-85-9 | ** |
| Oil mist, mineral | ----- | ** |
| Osmium tetroxide | 20816-12-0 | ** |
| Oxalic acid | 144-62-7 | ** |
| Oxygen difluoride | 7783-41-7 | ** |
| Oxymetholone | 434-07-1 | * |
| Ozone | 10028-15-6 | ** |
| Paraffin wax fume | 8002-74-2 | * |
| Paraquat | 1910-42-5 | ** |
| Parathion | 56-38-2 | ** |
| Particulate polycyclic aromatic hydrocarbons | see Coal tar pitch volatiles | |
| Pentaborane | 19624-22-7 | ** |
| Pentachloronaphthalene | 1321-64-8 | ** |
| Pentachlorophenol | 87-86-5 | ** |
| Pentaerythritol | 115-77-5 | * |
| Pentane | 109-66-0 | ** |
| 2-Pentanone | see Methyl propyl ketone | |
| Perchloroethylene | 127-18-4 | * |
| Perchloromethyl mercaptan | 594-42-3 | ** |
| Perchloryl fluoride | 7816-84-8 | ** |
| Perlite | ----- | * |
| Persulfate, ammonium | 7727-54-0 | * |
| Persulfate, potassium | 7727-21-1 | * |
| Persulfate, sodium | 7775-27-1 | * |
| Petroleum naphtha | 8030-30-6 | ** |
| Phenacetin | 62-44-2 | * |
| Phenazopyridine | 94-78-0 | * |
| Phenazopyridine hydrochloride | 136-40-3 | * |
| Phenol | 108-95-2 | ** |
| Phenothiazine | 92-84-2 | * |
| p-Phenylene diamine | 106-50-3 | ** |
| Phenyl ether | 101-84-8 | ** |
| Phenyl ether-biphenyl mixture | ----- | ** |
| Phenylethylene | see Styrene [monomer] | |
| Phenyl glycidyl ether (PGE) | 122-60-1 | ** |
| Phenyl hydrazine | 100-63-0 | ** |
| Phenyl mercaptan | 108-98-5 | * |
| N-Phenyl-beta-naphthylamine | 135-88-6 | * |
| Phenylphosphine | 838-21-1 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| Phenytoin | 57-41-0 | * |
| Phenytoin, sodium salt | 830-93-3 | * |
| Phorate | 298-02-2 | * |
| Phosdrin (Mevinphos) | 7786-34-7 | ** |
| Phosgene | 75-44-5 | ** |
| Phosphine | 7803-51-2 | ** |
| Phosphoric acid | 7664-38-2 | ** |
| Phosphorus, yellow | 7723-14-0 | ** |
| Phosphorus oxychloride | 10025-87-3 | * |
| Phosphorus pentachloride | 10026-13-8 | ** |
| Phosphorus pentasulfide | 1314-80-3 | ** |
| Phosphorus trichloride | 7719-12-2 | ** |
| Phthalic anhydride | 85-44-9 | ** |
| m-Phthalodinitrile | 628-17-5 | * |
| Picloran | 1918-02-1 | * |
| Picric acid | 88-89-1 | ** |
| Pindone see Pival | | |
| Piperazine dihydrochloride | 142-64-3 | * |
| Pival [2-Pivalyl-1,3-indandione] | 83-26-1 | ** |
| Platinum, soluble salts | 7440-06-4 | ** |
| Polybrominated biphenyls [PBB's] | 59538-65-1 | * |
| Polychlorinated biphenyls [PCB's] see Chlorodiphenyls | | |
| Polycyclic aromatic hydrocarbons see Coal tar pitch volatiles | | |
| Polytetrafluoroethylene decomposition products | ----- | * |
| Portland cement mixture | ----- | ** |
| Potassium hydroxide | 1310-58-3 | * |
| Potassium persulfate see Persulfate, potassium | | |
| Procarbazine | 671-16-9 | * |
| Procarbazine hydrochloride | 366-70-1 | * |
| Propane | 74-98-6 | * |
| Propane sulfone | 1120-71-4 | * |
| Propargyl alcohol | 107-19-7 | * |
| beta-Propiolactone | 57-57-8 | *** |
| Propionic acid | 79-09-4 | * |
| Propoxur see Bagon | | |
| n-Propyl acetate | 109-80-4 | ** |
| n-Propyl alcohol | 71-23-8 | ** |
| Propylene dichloride | 78-87-5 | ** |
| Propylene glycol dinitrate | 6423-43-4 | * |
| Propylene glycol monomethyl ether | 107-98-2 | * |
| Propylene imine | 75-56-8 | ** |
| Propylene oxide | 75-56-8 | ** |
| n-Propyl nitrate | 627-13-4 | ** |
| Propyne see Methylacetylene | | |

Section 5. Hazardous Substances List - Health Hazard [cont.]

| Hazardous Substance | CAS Number | ABC |
|--|------------|-----|
| Pyrethrum | 8003-84-7 | ** |
| Pyridine | 110-86-1 | ** |
| Quartz see Silica [quartz] | | |
| Quinone | 106-51-4 | ** |
| RDX see Cyclonite | | |
| Reserpine | 50-55-5 | * |
| Resorcinol | 108-46-3 | * |
| Rhodium and compounds | 7440-16-6 | ** |
| Ronnel | 289-84-3 | ** |
| Rotenone | 83-78-4 | ** |
| Rubber solvent | ----- | * |
| Saccharin | 81-07-2 | * |
| Safrole | 84-59-7 | * |
| Selenium and compounds | 7782-49-2 | ** |
| Selenium hexafluoride | 7783-79-1 | ** |
| Selenium sulfide | 7446-34-6 | * |
| Sesone see Sodium 2,4-dichlorophenoxyethyl sulfate | | |
| Silane see Silicon tetrahydride | | |
| Silica, amorphous | 7631-86-9 | ** |
| Silica, amorphous - fused | 60876-86-0 | * |
| Silica, crystalline - cristobalite | 14484-46-1 | * |
| Silica, crystalline - quartz | 14808-60-7 | * |
| Silica, crystalline - tridymite | 15468-32-3 | * |
| Silica, crystalline - tripoli | 1317-95-1 | * |
| Silicon | 7440-21-2 | * |
| Silicon carbide | 409-21-2 | * |
| Silicon tetrahydride | 7803-62-5 | * |
| Silver and compounds | 7440-22-4 | ** |
| Soapstone | ----- | ** |
| Sodium azide | 26626-22-8 | * |
| Sodium bisulfite | 7631-90-5 | * |
| Sodium 2,4-dichlorophenoxyethyl sulfate | 138-78-7 | * |
| Sodium fluoroacetate | 62-74-8 | ** |
| Sodium hydroxide | 1310-73-2 | ** |
| Sodium metabisulfite | 7681-57-4 | * |
| Sodium persulfate see Persulfate, sodium | | |
| Stibine | 7803-52-3 | ** |
| Stoddard solvent | 8052-41-3 | ** |
| Streptozotocin | 18883-66-4 | * |
| Strychnine | 57-24-9 | ** |
| Styrene (monomer) | 100-42-5 | ** |
| Subtilisin [Bacillus subtilis BPN] | 9014-01-1 | * |
| Subtilisin [Bacillus subtilis Carlsberg] | 1385-21-7 | * |
| Sulfallate | 85-06-7 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| Sulfur dioxide | 7446-09-5 | ** |
| Sulfur hexafluoride | 2551-82-4 | ** |
| Sulfuric acid | 7664-93-8 | ** |
| Sulfur monochloride | 10025-87-9 | ** |
| Sulfur pentafluoride | 5714-22-7 | ** |
| Sulfur tetrafluoride | 7783-60-0 | * |
| Sulfuryl fluoride | 2599-79-8 | ** |
| Sulprofos | 35400-43-2 | * |
| Systox see Demeton | | |
| 2,4,5 - T [2,4,5-Trichlorophenoxyacetic acid] | 93-76-5 | ** |
| Talc | ----- | ** |
| Tantalum | 7440-25-7 | ** |
| TEDP | 3689-24-5 | ** |
| Tellurium and compounds | 13494-80-9 | ** |
| Tellurium hexafluoride | 7783-80-4 | ** |
| Temphos see Abate | | |
| TEPP | 107-49-3 | ** |
| Terphenyls | 92-94-4 | ** |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin [TCDD] | 1746-01-6 | * |
| 1,1,2,2-Tetrachloro-1,2-difluoroethane | 76-12-0 | ** |
| 1,1,1,2-Tetrachloro-2,2-difluoroethane | 76-11-8 | ** |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ** |
| Tetrachloroethylene see Perchloroethylene | | |
| Tetrachloromethane see Carbon tetrachloride | | |
| Tetrachloronaphthalene | 1335-88-2 | ** |
| Tetraethyl lead | 78-00-2 | ** |
| Tetrahydrofuran | 108-99-9 | ** |
| Tetramethyl lead | 75-74-1 | ** |
| Tetramethyl succinonitrile | 3333-52-6 | ** |
| Tetranitromethane | 509-14-8 | ** |
| Tetrasodium pyrophosphate | 7722-88-5 | * |
| Tetryl | 479-45-8 | ** |
| Thallium and compounds | 7440-28-0 | ** |
| 4,4-Thio-bis[6-tart-butyl-m-cresol] | 96-69-5 | * |
| Thioacetamide | 82-55-5 | * |
| Thioglycolic acid | 68-11-1 | * |
| Thionyl chloride | 7719-09-7 | * |
| Thiourea | 62-56-6 | * |
| Thiram | 137-26-8 | ** |
| Thorium dioxide | 1314-20-1 | * |
| Tin and compounds | 7440-31-5 | ** |
| Titanium dioxide | 13463-67-7 | ** |
| Toluene | 108-88-3 | ** |
| Toluene-2,4-diisocyanate [TDI] | 584-84-9 | ** |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|---|------------|-----|
| o-Tolidine | 119-93-7 | * |
| o-Toluidine | 95-53-4 | *** |
| o-Toluidine hydrochloride | 686-21-5 | * |
| Toxaphene see Chlorinated camphene | | |
| Tributyl phosphate | 126-73-8 | ** |
| Trichloroacetic acid | 76-03-9 | * |
| 1,2,4-Trichlorobenzene | 120-82-1 | * |
| 1,1,1-Trichloroethane see Methyl chloroform | | |
| 1,1,2-Trichloroethane | 79-00-5 | ** |
| Trichloroethylene | 79-01-6 | ** |
| Trichlorofluoromethane | 75-69-4 | ** |
| Trichloromethane see Chloroform | | |
| Trichloronaphthalene | 1321-85-9 | ** |
| Trichloronitromethane see Chloropicrin | | |
| 2,4,6-Trichlorophenol | 88-06-2 | * |
| 1,2,3-Trichloropropane | 96-18-4 | ** |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 76-13-1 | ** |
| Tricyclohexyltin hydroxide | 19121-70-5 | * |
| Tridymite | 15468-32-3 | * |
| Triethylamine | 121-44-8 | ** |
| Trifluorobromomethane | 75-63-8 | ** |
| Trimellitic anhydride | 552-30-7 | * |
| Trimethylamine | 75-50-3 | * |
| Trimethyl benzene | 25551-13-7 | * |
| Trimethyl phosphite | 121-45-9 | * |
| 2,4,6-Trinitrophenol see Picric acid | | |
| 2,4,6-Trinitrophenyl-methylnitramine see Tetryl | | |
| 2,4,6-Trinitrotoluene | 118-96-7 | ** |
| Triorthocresyl phosphate | 78-80-8 | ** |
| Triphenyl amine | 603-34-9 | * |
| Triphenyl phosphate | 115-86-6 | ** |
| Tripoli | 1317-95-9 | * |
| Tris[1-aziridinyl]phosphine sulfide | 52-24-4 | * |
| Tris[2,3-dibromopropyl]phosphate | 126-72-7 | * |
| Tungsten and compounds | 7440-33-7 | * |
| Turpentine | 8008-64-2 | ** |
| Uranium and compounds | 7440-61-1 | ** |
| Urethane | 51-79-6 | * |
| Valeraldehyde | 110-62-3 | * |
| Vanadium | 7440-62-2 | * |
| Vanadium pentoxide, dust and fume | 1314-82-1 | * |
| Vinyl acetate | 108-05-4 | * |
| Vinyl benzene see Styrene [monomer] | | |
| Vinyl bromide | 593-60-2 | * |

Section 5. Hazardous Substances List - Health Hazard (cont.)

| Hazardous Substance | CAS Number | ABC |
|--------------------------------------|------------|-----|
| Vinyl chloride | 75-01-4 | ** |
| Vinyl cyanide see Acrylonitrile | | |
| Vinyl cyclohexene dioxide | 106-87-6 | * |
| Vinylidene chloride | 75-35-4 | * |
| Vinyl toluene | 25013-15-4 | ** |
| VM & P naphtha see Petroleum naphtha | | |
| Warfarin | 81-81-2 | ** |
| Wood dust | ----- | * |
| Xylene [all isomers] | 1330-20-7 | ** |
| m-Xylene | 108-38-3 | ** |
| o-Xylene | 95-47-6 | ** |
| p-Xylene | 106-42-3 | ** |
| m-Xylene-alpha,alpha-diamine | 1477-55-0 | * |
| Xylidine | 1300-73-8 | ** |
| Yttrium | 7440-65-5 | ** |
| Zinc chloride fume | 7646-85-7 | ** |
| Zinc chromates | 13530-65-8 | * |
| Zinc oxide fume | 1314-13-2 | ** |
| Zinc stearate | 557-05-1 | * |
| Zirconium and compounds | 7440-67-7 | ** |

Section 8. Index by CAS Number

| CAS Number | Hazardous Substance |
|------------|---------------------------------------|
| 11-78-2 | 2-Butoxyethanol |
| 50-00-0 | Formaldehyde, and solutions |
| 50-18-0 | Cyclophosphamide |
| 50-29-3 | DDT [Dichlorodiphenyltrichloroethane] |
| 50-32-8 | Benzo[a]pyrene |
| 50-55-5 | Reserpine |
| 50-78-2 | Acetylsalicylic acid |
| 51-78-6 | Urethane |
| 52-24-4 | Tris[1-aziridinyl]phosphine sulfide |
| 53-70-3 | Dibenz[a,h]anthracene |
| 53-86-3 | 2-Acetylamino fluorene |
| 54-11-5 | Nicotine |
| 55-18-5 | N-Nitrosodiethylamine |
| 55-38-9 | Fenthion |
| 55-63-0 | Nitroglycerin |
| 56-23-5 | Carbon tetrachloride |
| 56-38-2 | Parathion |
| 56-53-1 | Diethylstilbestrol [DES] |
| 56-55-3 | Benz[a]anthracene |
| 56-81-5 | Glycerol |
| 57-14-7 | 1,1-Dimethylhydrazine |
| 57-24-9 | Strychnine |
| 57-41-0 | Phenytoin |
| 57-57-8 | beta-Propiolactone |
| 57-74-8 | Chlordane |
| 58-89-9 | Lindane & isomers |
| 59-89-2 | N-Nitrosomorpholine |
| 60-11-7 | 4-Dimethylaminoazobenzene |
| 60-29-7 | Ethyl ether |
| 60-34-4 | Methyl hydrazine |
| 60-57-1 | Dieldrin |
| 61-82-5 | 3-Amino-1,2,4-triazole |
| 62-44-2 | Phenacetin |
| 62-53-3 | Aniline and homologues |
| 62-55-5 | Thioacetamide |
| 62-58-6 | Thiourea |
| 62-73-7 | Dichlorvos |
| 62-74-8 | Sodium fluoroacetate |
| 62-75-9 | N-Nitrosodimethylamine |
| 63-25-2 | Carbaryl [Sevin] |
| 64-17-5 | Ethyl alcohol [Ethanol] |
| 64-18-6 | Formic acid |
| 64-19-7 | Acetic acid |
| 67-56-1 | Methyl alcohol [Methanol] |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|-----------------------|
| 67-63-0 | Isopropyl alcohol |
| 67-64-1 | Acetone |
| 67-66-3 | Chloroform |
| 67-72-1 | Hexachloroethane |
| 88-11-1 | Thioglycolic acid |
| 88-12-2 | Dimethyl formamide |
| 71-23-8 | n-Propyl alcohol |
| 71-36-3 | n-Butyl alcohol |
| 71-43-2 | Benzene |
| 71-55-6 | Methyl chloroform |
| 72-20-8 | Endrin |
| 72-43-5 | Methoxychlor |
| 74-88-8 | Methyl bromide |
| 74-87-3 | Methyl chloride |
| 74-88-4 | Methyl iodide |
| 74-89-5 | Methylamine |
| 74-90-8 | Hydrogen cyanide |
| 74-93-1 | Methyl mercaptan |
| 74-96-4 | Ethyl bromide |
| 74-97-5 | Chlorobromomethane |
| 74-98-8 | Propene |
| 74-99-7 | Methyl acetylene |
| 75-00-3 | Ethyl chloride |
| 75-01-4 | Vinyl chloride |
| 75-04-7 | Ethylamine |
| 75-05-8 | Acetonitrile |
| 75-07-0 | Acetaldehyde |
| 75-08-1 | Ethyl mercaptan |
| 75-09-2 | Methylene chloride |
| 75-12-7 | Formamide |
| 75-15-0 | Carbon disulfide |
| 75-21-8 | Ethylene oxide |
| 75-25-2 | Bromoform |
| 75-31-0 | Isopropylamine |
| 75-34-3 | 1,1-Dichloroethane |
| 75-35-4 | Vinylidene chloride |
| 75-43-4 | Dichlorofluoromethane |
| 75-44-5 | Phosgene |
| 75-45-6 | Chlorodifluoromethane |
| 75-47-8 | Iodoform |
| 75-50-3 | Trimethylamine |
| 75-52-5 | Nitromethane |
| 75-55-8 | Propylene imine |
| 75-58-9 | Propylene oxide |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--|
| 75-61-6 | Difluorodibromomethane |
| 75-63-8 | Trifluorobromomethane |
| 75-65-0 | tert-Butyl alcohol |
| 75-69-4 | Trichlorofluoromethane |
| 75-71-8 | Dichlorodifluoromethane |
| 75-74-1 | Tetramethyl lead |
| 75-99-0 | 2,2-Dichloropropionic acid |
| 76-03-9 | Trichloroacetic acid |
| 76-06-2 | Chloropicrin |
| 76-11-9 | 1,1,1,2-Tetrachloro-2,2-difluoroethane |
| 76-12-0 | 1,1,2,2-Tetrachloro-1,2-difluoroethane |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane |
| 76-14-2 | Dichlorotetrafluoroethane |
| 76-15-3 | Chloropentafluoroethane |
| 76-22-2 | Camphor |
| 76-44-8 | Heptachlor |
| 76-68-3 | Hexachlorobutadiene |
| 77-47-4 | Hexachlorocyclopentadiene |
| 77-73-6 | Dicyclopentadiene |
| 77-78-1 | Dimethyl sulfate |
| 78-00-2 | Tetraethyl lead |
| 78-10-4 | Ethyl silicate |
| 78-30-8 | Triorthocresyl phosphate |
| 78-34-2 | Dioxathion |
| 78-59-1 | Isophorone |
| 78-83-1 | Isobutyl alcohol |
| 78-87-5 | Propylene dichloride |
| 78-92-2 | sec-Butyl alcohol |
| 78-93-3 | Methyl ethyl ketone |
| 79-00-5 | 1,1,2-Trichloroethane |
| 79-01-6 | Trichloroethylene |
| 79-04-9 | Chloroacetyl chloride |
| 79-06-1 | Acrylamide |
| 79-08-4 | Propionic acid |
| 79-10-7 | Acrylic acid |
| 79-20-9 | Methyl acetate |
| 79-24-3 | Nitroethane |
| 79-27-8 | Acetylene tetrabromide |
| 79-34-5 | 1,1,2,2-Tetrachloroethane |
| 79-41-4 | Methacrylic acid |
| 79-44-0 | Dimethyl carbamoyl chloride |
| 79-46-8 | 2-Nitropropane |
| 80-62-6 | Methyl methacrylate |
| 81-07-2 | Saccharin |

Section 6. Index by CAS Number [cont.]

| CAS Number | Hazardous Substance |
|------------|---|
| 81-81-2 | Warfarin |
| 82-28-0 | 1-Amino-2-methylantraquinone |
| 83-26-1 | Pival [2-Pivalyl-1,3-indandione] |
| 83-78-4 | Rotenone |
| 84-88-2 | Diethyl phthalate |
| 84-74-2 | Dibutyl phthalate |
| 85-08-7 | Diquat |
| 85-44-9 | Phthalic anhydride |
| 86-50-0 | Azinphos-methyl |
| 86-88-4 | ANTU [alpha-Naphthyl thiourea] |
| 87-86-5 | Pentachlorophenol |
| 88-06-2 | 2,4,6-Trichlorophenol |
| 88-72-2 | o-Nitrotoluene |
| 88-89-1 | Picric acid |
| 89-72-5 | o-sec-Butylphenol |
| 90-94-8 | Michler's ketone |
| 91-20-3 | Naphthalene |
| 91-59-8 | 2-Naphthylamine [beta-Naphthylamine] |
| 91-84-1 | 3,3'-Dichlorobenzidine, and salts |
| 92-52-4 | Biphenyl |
| 92-67-1 | 4-Aminobiphenyl |
| 92-84-2 | Phenothiazine |
| 92-87-5 | Benzidine |
| 92-93-3 | 4-Nitrodiphenyl |
| 92-94-4 | Terphenyls |
| 93-78-5 | 2,4,5 - T [2,4,5-Trichlorophenoxyacetic acid] |
| 94-38-0 | Benzoyl peroxide |
| 94-59-7 | Safrole |
| 94-75-7 | 2,4-D [2,4-Dichlorophenoxyacetic acid] |
| 94-78-0 | Phenazopyridine |
| 95-06-7 | Sulfallate |
| 95-13-8 | Indene |
| 95-47-6 | o-Xylene |
| 95-48-7 | o-Cresol |
| 95-49-8 | o-Chlorotoluene |
| 95-50-1 | o-Dichlorobenzene |
| 95-53-4 | o-Toluidine |
| 95-80-7 | 2,4-Diaminotoluene |
| 96-12-8 | 1,2-Dibromo-3-chloropropane [DBCP] |
| 96-18-4 | 1,2,3-Trichloropropane |
| 96-22-0 | Diethyl ketone |
| 96-33-3 | Methyl acrylate |
| 96-45-7 | Ethylene thiourea |
| 96-69-5 | 4,4-Thio-bis[6-tert-butyl-m-cresol] |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|---|
| 97-77-8 | Disulfiram |
| 98-00-0 | Furfuryl alcohol |
| 98-01-1 | Furfural |
| 98-51-1 | p-tart-Butyltoluene |
| 98-82-8 | Cumene |
| 98-88-9 | alpha-Methyl styrene |
| 98-95-3 | Nitrobenzene |
| 98-98-1 | m-Nitrotoluene |
| 99-59-2 | 5-Nitro-o-anisidine |
| 99-65-0 | m-Dinitrobenzene |
| 99-99-0 | p-Nitrotoluene |
| 100-00-5 | p-Nitrochlorobenzene |
| 100-01-6 | p-Nitroaniline |
| 100-25-4 | p-Dinitrobenzene |
| 100-37-8 | Diethylamino ethanol |
| 100-41-4 | Ethyl benzene |
| 100-42-5 | Styrene (monomer) |
| 100-44-7 | Benzyl chloride |
| 100-61-8 | N-Methyl aniline |
| 100-63-0 | Phenyl hydrazine |
| 100-74-3 | N-Ethylmorpholine |
| 100-75-4 | N-Nitrosopiperidine |
| 101-14-4 | 4,4'-Methylene bis[2-chloroaniline] |
| 101-61-1 | 4,4'-Methylene bis(n,n-dimethyl)benzenamine |
| 101-68-8 | Methylene bisphenyl isocyanate [MDI] |
| 101-77-9 | 4,4'-Methylene dianiline |
| 101-84-8 | Phenyl ether |
| 102-54-5 | Dicyclopentadienyl iron |
| 102-81-8 | 2-N-Dibutylaminoethanol |
| 105-30-6 | Methyl isobutyl carbinol |
| 105-46-4 | sec-Butyl acetate |
| 105-60-2 | Ceprolactam |
| 106-35-4 | Ethyl butyl ketone |
| 106-42-3 | p-Xylene |
| 106-44-5 | p-Cresol |
| 106-48-7 | p-Dichlorobenzene |
| 106-50-3 | p-Phenylene diamine |
| 106-51-4 | Quinone |
| 106-87-6 | Vinyl cyclohexene dioxide |
| 108-89-8 | Epichlorhydrin |
| 106-92-3 | Allyl glycidyl ether |
| 106-93-4 | Ethylene dibromide [EDB] |
| 106-97-8 | Butane |
| 106-98-0 | Butadiene [1,3-Butadiene] |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|-----------------------------------|
| 107-02-8 | Acrolein |
| 107-05-1 | Allyl chloride |
| 107-06-2 | Ethylene dichloride |
| 107-07-3 | Ethylene chlorohydrin |
| 107-13-1 | Acrylonitrile |
| 107-15-3 | Ethylenediamine |
| 107-18-6 | Allyl alcohol |
| 107-19-7 | Propargyl alcohol |
| 107-20-0 | Chloroacetaldehyde |
| 107-21-1 | Ethylene glycol |
| 107-30-2 | Methyl chloromethyl ether |
| 107-31-3 | Methyl formate |
| 107-41-5 | Hexylene glycol |
| 107-49-3 | TEPP |
| 107-67-9 | Methyl propyl ketone |
| 107-98-2 | Propylene glycol monomethyl ether |
| 108-03-2 | 1-Nitropropane |
| 108-05-4 | Vinyl acetate |
| 108-10-1 | Methyl isobutyl ketone |
| 108-18-9 | Diisopropylamine |
| 108-20-3 | Isopropyl ether |
| 108-21-4 | Isopropyl acetate |
| 108-24-7 | Acetic anhydride |
| 108-31-6 | Maleic anhydride |
| 108-38-3 | m-Xylene |
| 108-39-4 | m-Cresol |
| 108-46-3 | Resorcinol |
| 108-57-6 | Divinyl benzene |
| 108-83-8 | Diisobutyl ketone |
| 108-87-2 | Methylcyclohexane |
| 108-88-3 | Toluene |
| 108-90-7 | Chlorobenzene |
| 108-91-8 | Cyclohexylamine |
| 108-93-0 | Cyclohexanol |
| 108-94-1 | Cyclohexanone |
| 108-95-2 | Phenol |
| 108-98-5 | Phenyl mercaptan |
| 109-59-1 | 2-Isopropoxyethanol |
| 109-60-4 | n-Propyl acetate |
| 108-66-0 | Pentane |
| 109-73-9 | n-Butylamine |
| 109-79-5 | n-Butyl mercaptan |
| 109-86-4 | Methyl cellosolve |
| 109-87-5 | Methylal [Dimethoxymethane] |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--|
| 109-89-7 | Diethylamine |
| 109-84-4 | Ethyl formate |
| 109-99-8 | Tetrahydrofuran |
| 110-12-8 | Methyl isobutyl ketone |
| 110-19-0 | Isobutyl acetate |
| 110-48-0 | Methyl n-butyl ketone |
| 110-49-8 | Methyl cellosolve acetate |
| 110-54-3 | Hexane (and isomers) |
| 110-62-8 | Valeraldehyde |
| 110-80-5 | 2-Ethoxyethanol |
| 110-82-7 | Cyclohexane |
| 110-83-8 | Cyclohexene |
| 110-86-1 | Pyridine |
| 110-81-8 | Morpholine |
| 111-15-8 | 2-Ethoxyethyl acetate (Cellosolve acetate) |
| 111-30-8 | Glutaraldehyde |
| 111-40-0 | Diethylene triamine |
| 111-42-2 | Diethanolamine |
| 111-44-4 | Dichloroethyl ether |
| 111-65-9 | Octane |
| 111-84-2 | Nonane |
| 112-62-9 | Emery |
| 114-26-1 | Baygon |
| 115-29-7 | Endosulfan |
| 115-77-5 | Pentaerythritol |
| 115-86-6 | Triphenyl phosphate |
| 115-90-2 | Fensulfotion |
| 117-79-8 | 2-Aminoanthraquinone |
| 117-81-7 | Di-2-ethylhexyl phthalate |
| 118-52-5 | 1,3-Dichloro-5,5-dimethylhydantoin |
| 118-74-1 | Hexachlorobenzene |
| 118-96-7 | 2,4,6-Trinitrotoluene |
| 119-90-4 | 3,3'-Dimethoxybenzidine |
| 119-93-7 | o-Tolidine |
| 120-71-8 | p-Cresidine |
| 120-80-9 | Gallicol (Pyrocatechol) |
| 120-82-1 | 1,2,4-Trichlorobenzene |
| 121-44-8 | Triethylamine |
| 121-45-9 | Trimethyl phosphite |
| 121-89-7 | Dimethylaniline |
| 121-75-5 | Malathion |
| 121-82-4 | Cyclonite |
| 122-39-4 | Diphenylamine |
| 122-80-1 | Phenyl glycidyl ether (PGE) |

Section 8. Index by CAS Number [cont.]

| CAS Number | Hazardous Substance |
|------------|---|
| 122-66-7 | Hydrazobenzene |
| 123-19-3 | Dipropyl ketone |
| 123-31-9 | Hydroquinone |
| 123-42-2 | Diacetone alcohol |
| 123-51-3 | Isoamyl alcohol |
| 123-73-9 | Crotonaldehyde |
| 123-86-4 | n-Butyl acetate |
| 123-91-1 | Dioxane (Diethylene dioxide) |
| 123-92-2 | Isoamyl acetate |
| 124-38-9 | Carbon dioxide |
| 124-40-3 | Dimethylamine |
| 126-72-7 | Tris[2,3-dibromopropyl]phosphate |
| 126-73-8 | Tributyl phosphate |
| 126-98-7 | Methylacrylonitrile |
| 126-98-8 | beta-Chloroprene |
| 127-18-4 | Perchloroethylene |
| 127-19-5 | Dimethyl acetamide |
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol |
| 131-11-3 | Dimethylphthalate [DMP] |
| 133-06-2 | Captan |
| 134-32-7 | alpha-Naphthylamine |
| 135-20-6 | Cupferron |
| 135-88-6 | N-Phenyl-beta-naphthylamine |
| 136-40-3 | Phenazopyridine hydrochloride |
| 136-78-7 | Sodium 2,4-dichlorophenoxyethyl sulfate |
| 137-05-3 | Methyl 2-cyanoacrylate |
| 137-26-8 | Thiram |
| 138-22-7 | n-Butyl lactate |
| 139-13-9 | Nitrilotriacetic acid |
| 140-57-8 | Aramite |
| 140-68-5 | Ethyl acrylate |
| 141-32-2 | n-Butyl acrylate |
| 141-43-5 | Ethanolamine |
| 141-66-2 | Dicrotophos |
| 141-78-6 | Ethyl acetate |
| 141-79-7 | Mesityl oxide |
| 142-64-3 | Piperazine dihydrochloride |
| 142-82-5 | Heptane |
| 142-92-7 | sec-Hexyl acetate |
| 143-33-9 | Cyanide, sodium |
| 148-50-0 | Kepons [chlordecone] |
| 144-82-7 | Oxalic acid |
| 148-01-6 | 3,5-Dinitro-o-toluamide |
| 148-82-3 | Melphalan |

Section 8. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--|
| 150-78-5 | 4-Methoxyphenol |
| 151-50-8 | Cyanide, potassium |
| 151-56-4 | Ethylenimine |
| 151-67-7 | Halothane |
| 156-10-5 | p-Nitrosodiphenylamine |
| 158-62-7 | Calcium cyanamide |
| 189-55-9 | Dibenzo[a,i]pyrene |
| 189-64-0 | Dibenzo[a,h]pyrene |
| 193-39-5 | Indeno[1,2,3-cd]pyrene |
| 205-99-2 | Benzo[b]fluoranthene |
| 207-84-1 | 7H-Dibenzo[c,g]carbazole |
| 224-42-0 | Dibenz[a,j]acridine |
| 226-36-8 | Dibenz[a,h]acridine |
| 287-92-3 | Cyclopentane |
| 298-00-0 | Methyl parathion |
| 298-02-2 | Phorate |
| 298-04-4 | Disulfoton |
| 299-84-3 | Ronnel |
| 298-88-5 | Cruformate |
| 300-76-5 | Dibrom |
| 301-04-2 | Lead acetate |
| 302-01-2 | Hydrazine |
| 305-03-3 | Chlorambucil |
| 309-00-2 | Aldrin |
| 314-40-9 | Bromacil |
| 330-54-1 | Diuron |
| 333-41-5 | Diazinon |
| 384-88-3 | Diazomethane |
| 353-50-4 | Carbonyl fluoride |
| 366-70-1 | Procarbazine hydrochloride |
| 409-21-2 | Silicon carbide |
| 420-04-2 | Cyanamide |
| 434-07-1 | Oxymetholone |
| 460-19-5 | Cyanogen |
| 463-51-4 | Ketene |
| 479-45-8 | Tetryl |
| 494-03-1 | N,N-Bis[2-chloroethyl]-2-naphthylamine |
| 504-29-0 | 2-Aminopyridine |
| 505-60-2 | Mustard gas |
| 506-77-4 | Cyanogen chloride |
| 509-14-8 | Tetranitromethane |
| 528-29-0 | o-Dinitrobenzene |
| 532-27-4 | alpha-Chloroacetophenone [Phenacyl chloride] |
| 540-58-0 | 1,2-Dichloroethylene |

Section 6. Index by CAS Number [cont.]

| CAS Number | Hazardous Substance |
|------------|---|
| 540-88-5 | tart-Butyl acetate |
| 541-85-5 | Ethyl amyl ketone |
| 542-75-8 | 1,3-Dichloropropane |
| 542-88-1 | bis[Chloromethyl]ether |
| 542-92-7 | Cyclopentadiene |
| 552-30-7 | Trimellitic anhydride |
| 556-52-5 | Glycidol [2,3-Epoxy-1-propanol] |
| 557-05-1 | Zinc stearate |
| 558-13-4 | Carbon tetrabromide |
| 563-12-2 | Ethion |
| 563-80-4 | Methyl isopropyl ketone |
| 583-60-8 | o-Methylcyclohexanone |
| 584-84-9 | Toluene-2,4-diisocyanate [TDI] |
| 591-78-6 | Methyl n-butyl ketone |
| 593-60-2 | Vinyl bromide |
| 594-42-3 | Perchloromethyl mercaptan |
| 594-72-9 | 1,1-Dichloro-1-nitroethane |
| 598-78-7 | 2-Chloropropionic acid |
| 600-25-9 | 1-Chloro-1-nitropropane |
| 603-34-9 | Triphenyl amine |
| 621-84-7 | N-Nitrosodi-n-propylamine |
| 624-89-9 | Methyl isocyanate |
| 626-17-5 | m-Phthalodinitrile |
| 626-38-0 | sec-Amyl acetate |
| 627-13-4 | n-Propyl nitrate |
| 628-63-7 | n-Amyl acetate |
| 628-86-6 | Ethylene glycol dinitrate [Nitroglycerin] |
| 630-06-0 | Carbon monoxide |
| 630-93-3 | Phenytoin, sodium salt |
| 636-21-5 | o-Toluidine hydrochloride |
| 638-21-1 | Phenylphosphine |
| 643-28-7 | N-Isopropylaniline |
| 671-16-9 | Procabazine |
| 680-31-9 | Hexamethyl phosphoramide |
| 681-84-5 | Methyl silicate |
| 684-16-2 | Hexafluoroacetone |
| 684-93-5 | N-Nitroso-n-methylurea |
| 744-58-6 | Hafnium |
| 759-73-9 | N-Nitroso-n-ethylurea |
| 924-16-3 | N-Nitrosodi-n-butylamine |
| 930-55-2 | N-Nitrosopyrrolidine |
| 944-22-9 | Dyfonate |
| 989-61-1 | 2-Hydroxypropyl acrylate |
| 1116-54-7 | N-Nitrosodiethanolamine |

Section 6. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--------------------------------------|
| 1120-71-4 | Propane sultone |
| 1189-85-1 | tert-Butyl chromate |
| 1300-73-8 | Xylidina |
| 1303-86-2 | Boron oxide |
| 1303-96-4 | Borates, tetra, sodium salts |
| 1304-82-1 | Bismuth telluride |
| 1305-62-0 | Calcium hydroxide |
| 1305-78-8 | Calcium oxide |
| 1309-37-1 | Iron oxide |
| 1309-48-4 | Magnesium oxide fume |
| 1310-58-3 | Potassium hydroxide |
| 1310-73-2 | Sodium hydroxide |
| 1314-13-2 | Zinc oxide fume |
| 1314-20-1 | Thorium dioxide |
| 1314-62-1 | Vanadium pentoxide, dust and fume |
| 1314-80-3 | Phosphorus pentasulfide |
| 1317-95-9 | Tripoli |
| 1319-77-3 | Cresol [all isomers] |
| 1321-12-6 | Nitrotoluene [all isomers] |
| 1321-64-8 | Pentachloronaphthalene |
| 1321-85-9 | Trichloronaphthalene |
| 1330-26-7 | Xylene [all isomers] |
| 1331-28-8 | o-Chlorostyrene |
| 1332-21-4 | Asbestos |
| 1335-87-1 | Hexachloronaphthalene |
| 1335-88-2 | Tetrachloronaphthalene |
| 1338-23-4 | Methyl ethyl ketone peroxide |
| 1344-28-1 | Aluminum oxide |
| 1385-21-7 | Subtilisin [Bacillus subtilis BPN] |
| 1402-68-2 | Aflatoxins |
| 1464-53-5 | Diepoxybutane |
| 1477-55-0 | m-Xylene-alpha,alpha-diamine |
| 1563-66-2 | Carbofuran |
| 1746-01-8 | 2,3,7,8-Tetrachlorodibenzo-p-dioxin |
| 1836-75-5 | Nitrofen |
| 1810-42-5 | Paraquat |
| 1812-24-8 | Atrazine |
| 1818-02-1 | Picloram |
| 1829-82-4 | 2-Chloro-6-(trichloromethyl)pyridine |
| 1837-37-7 | Direct Black 38 |
| 2104-64-5 | EPN |
| 2178-58-1 | Allyl propyl disulfide |
| 2234-13-1 | Octachloronaphthalene |
| 2288-07-5 | Diglycidyl ether [DGE] |

Section 8. Index by CAS Number [cont.]

| CAS Number | Hazardous Substance |
|------------|--|
| 2312-76-2 | Dinitro-o-cresol |
| 2385-85-5 | Mirex |
| 2425-06-1 | Captafol |
| 2426-08-6 | n-Butyl glycidyl ether |
| 2551-62-4 | Sulfur hexafluoride |
| 2602-46-2 | Direct Blue 8 |
| 2698-41-1 | o-Chlorobenzylidene malononitrile |
| 2699-79-8 | Sulfuryl fluoride |
| 2921-88-2 | Chloropyrifos |
| 2971-90-6 | Clopidol |
| 3333-52-6 | Tetramethyl succinonitrile |
| 3369-96-8 | Abate |
| 3689-24-5 | TEDP |
| 4016-14-2 | Isopropyl glycidyl ether |
| 4549-40-0 | N-Nitrosomethylvinylamine |
| 5124-30-1 | Methylene bis[4-cyclohexylisocyanate] |
| 5714-22-7 | Sulfur pentafluoride |
| 6423-43-4 | Propylene glycol dinitrate |
| 6923-22-4 | Monocrotophos |
| 7429-90-5 | Aluminum and compounds |
| 7439-92-1 | Lead, inorganic lead compounds, and lead soaps |
| 7439-96-5 | Manganese and compounds |
| 7439-97-6 | Mercury and compounds |
| 7439-98-7 | Molybdenum and compounds |
| 7440-02-0 | Nickel and compounds |
| 7440-06-4 | Platinum, soluble salts |
| 7440-16-6 | Rhodium and compounds |
| 7440-21-2 | Silicon |
| 7440-22-4 | Silver and compounds |
| 7440-25-7 | Tantalum |
| 7440-28-0 | Thallium and compounds |
| 7440-31-5 | Tin and compounds |
| 7440-33-7 | Tungsten and compounds |
| 7440-36-0 | Antimony and compounds |
| 7440-38-2 | Arsenic and compounds |
| 7440-38-3 | Barium compounds [soluble] |
| 7440-41-7 | Beryllium and compounds |
| 7440-43-9 | Cadmium and compounds |
| 7440-44-0 | Carbon black |
| 7440-47-3 | Chromium and compounds |
| 7440-48-4 | Cobalt |
| 7440-50-8 | Copper |
| 7440-61-1 | Uranium and compounds |
| 7440-62-2 | Vanadium |

Section 8. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|-----------------------------|
| 7440-65-5 | Yttrium |
| 7440-67-7 | Zirconium and compounds |
| 7440-74-6 | Indium and compounds |
| 7446-09-5 | Sulfur dioxide |
| 7446-27-7 | Lead phosphate |
| 7446-84-6 | Selenium sulfide |
| 7553-56-2 | Iodine |
| 7572-29-4 | Dichloroacetylene |
| 7580-67-8 | Lithium hydride |
| 7616-94-8 | Perchloryl fluoride |
| 7681-66-9 | Silica, amorphous |
| 7681-90-5 | Sodium bisulfite |
| 7687-07-2 | Boron trifluoride |
| 7646-85-7 | Zinc chloride fume |
| 7847-01-1 | Hydrogen chloride |
| 7664-38-2 | Phosphoric acid |
| 7664-39-3 | Hydrogen fluoride |
| 7664-41-7 | Ammonia |
| 7664-93-9 | Sulfuric acid |
| 7681-57-4 | Sodium metabisulfite |
| 7687-37-2 | Nitric acid |
| 7719-12-2 | Phosphorus trichloride |
| 7722-84-1 | Hydrogen peroxide |
| 7722-88-5 | Tetrasodium pyrophosphate |
| 7723-14-0 | Phosphorus, yellow |
| 7726-95-8 | Bromine |
| 7727-21-1 | Persulfate, potassium |
| 7727-64-0 | Persulfate, ammonium |
| 7773-06-0 | Ammonium sulfamate (Ammate) |
| 7775-27-0 | Persulfate, sodium |
| 7782-41-4 | Fluorine |
| 7782-49-2 | Selenium and compounds |
| 7782-50-5 | Chlorine |
| 7782-85-2 | Germanium tetrahydride |
| 7783-06-4 | Hydrogen sulfide |
| 7783-07-5 | Hydrogen selenide |
| 7783-41-7 | Oxygen difluoride |
| 7783-54-2 | Nitrogen trifluoride |
| 7783-60-0 | Sulfur tetrafluoride |
| 7783-79-1 | Selenium hexafluoride |
| 7783-80-4 | Tellurium hexafluoride |
| 7784-42-1 | Arsine |
| 7788-34-7 | Phosdrin [Hevinphos] |
| 7789-30-2 | Bromine pentafluoride |

Section 8. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--|
| 7780-91-2 | Chlorine trifluoride |
| 7803-51-2 | Phosphine |
| 7803-52-3 | Stibine |
| 7803-62-5 | Silicon tetrahydride |
| 8001-35-2 | Chlorinated camphene |
| 8002-74-2 | Paraffin wax fume |
| 8003-84-7 | Pyrethrum |
| 8006-61-9 | Gasoline |
| 8006-64-2 | Turpentine |
| 8007-45-2 | Coal tar pitch volatiles |
| 8022-00-2 | Methyl demeton |
| 8030-30-6 | Petroleum naphtha |
| 8052-41-3 | Stoddard solvent |
| 8052-42-4 | Asphalt |
| 8065-48-3 | Demeton |
| 9004-66-4 | Iron dextran complex |
| 9014-01-1 | Subtilisin (Bacillus subtilis Carlsberg) |
| 10025-67-9 | Sulfur monochloride |
| 10025-87-3 | Phosphorus oxychloride |
| 10026-13-8 | Phosphorus pentachloride |
| 10029-15-8 | Ozone |
| 10034-93-2 | Hydrazine sulfate |
| 10035-10-6 | Hydrogen bromide |
| 10049-04-4 | Chlorine dioxide |
| 10102-43-9 | Nitric oxide |
| 10102-44-0 | Nitrogen dioxide |
| 10102-48-4 | Lead arsenate |
| 10210-88-1 | Cobalt carbonyl |
| 10284-33-4 | Boron tribromide |
| 11097-69-1 | Chlorodiphenyl (54% chlorine) (PCB) |
| 12001-26-2 | Mica |
| 12108-00-2 | Methylcyclopentadienyl manganese tricarbonyl |
| 12108-13-3 | Manganese cyclopentadienyl tricarbonyl |
| 12125-02-9 | Ammonium chloride |
| 12604-58-9 | Ferrovandium dust |
| 13121-70-5 | Tricyclohexyltin hydroxide |
| 13256-22-9 | N-Nitrososarcosine |
| 13463-39-3 | Nickel carbonyl |
| 13463-40-8 | Iron pentacarbonyl |
| 13463-67-7 | Titanium dioxide |
| 13494-80-9 | Tellurium and compounds |
| 13530-65-9 | Zinc chromates |
| 13838-16-9 | Enflurane |
| 14464-46-1 | Cristobalite |

Section 8. Index by CAS Number (cont.)

| CAS Number | Hazardous Substance |
|------------|--|
| 14484-64-1 | Farban |
| 14808-60-7 | Silica, quartz |
| 14901-08-7 | Cycasin |
| 14977-61-8 | Chromyl chloride |
| 15468-82-8 | Tridymite |
| 18219-75-3 | Ethylidene norbornene |
| 16543-55-8 | N-Nitrosornicotina |
| 16752-77-5 | Methomyl |
| 16842-03-8 | Cobalt hydrocarbonyl |
| 17702-41-9 | Decaborane |
| 17804-35-2 | Banomyl |
| 18454-12-1 | Lead chromate |
| 18863-66-4 | Streptozotocin |
| 19287-45-7 | Diborane |
| 19624-22-7 | Pentaborane |
| 20816-12-0 | Osmium tetroxide |
| 21087-64-9 | Metribuzin |
| 21351-79-1 | Cesium hydroxide |
| 22224-92-6 | Fenamiphos |
| 25013-15-4 | Vinyl toluene |
| 25154-54-5 | Dinitrobenzene (all isomers) |
| 25321-14-6 | Dinitrotoluene |
| 25551-13-7 | Trimethyl benz-Diaminocanisole sulfate |
| 53449-21-9 | Chlorodiphenyl (42% chlorine) [PCB] |
| 55720-99-5 | Chlorinated diphenyl oxide |
| 59536-65-1 | Polybrominated biphenyls [PBB's] |
| 60676-86-0 | Silica, fused |

Section 7. Hazardous Substances with no CAS number.

| Identifier | Hazardous Substance |
|------------|--|
| 99999-07-1 | Coal dust |
| 99999-07-2 | Coke oven emissions |
| 99999-07-3 | Cotton dust |
| 99999-08-1 | Diatomaceous earth |
| 99999-08-2 | Dibutyl phosphate |
| 99999-09-1 | 1,1-Dimethylhydrazine |
| 99999-11-1 | Fibrous glass dust |
| 99999-11-2 | Fluorides |
| 99999-11-3 | Grain dust |
| 99999-11-4 | Graphite, natural |
| 99999-11-5 | Graphite, synthetic |
| 99999-12-1 | Iron salts |
| 99999-13-1 | Isophorone diisocyanate |
| 99999-13-2 | Liquefied petroleum gas |
| 99999-13-3 | Manganese tetroxide |
| 99999-13-4 | Methyl acetylene - propadiene mixture |
| 99999-14-1 | Mineral wool fiber |
| 99999-15-1 | Naphtha, coal tar |
| 99999-16-1 | Oil mist, mineral |
| 99999-16-2 | Perlite |
| 99999-16-3 | Phenyl ether - biphenyl mixture |
| 99999-17-1 | Polytetrafluoroethylene decomposition products |
| 99999-17-2 | Portland cement mixture |
| 99999-18-1 | Rubber solvent |
| 99999-18-2 | Soapstone |
| 99999-19-1 | Talc |
| 99999-21-1 | Wood dust |