

**5206.0400 HAZARDOUS SUBSTANCES.**

Subpart 1. **In general.** The commissioner has determined that the list of hazardous substances in subpart 5 shall be covered by the provisions of this chapter. The hazardous substance list includes the majority of hazardous substances that will be encountered in Minnesota; it does not include all hazardous substances and will not always be current. Employers shall exercise reasonable diligence in evaluating their workplace for the presence of other recognized hazardous substances and assure that employees are provided with the rights stated in this chapter.

Subp. 2. **Exemptions.** Substances or mixtures within the categories in items A to K are exempt from coverage under this standard.

A. Products intended for personal consumption by employees in the workplace.

B. Consumer products packaged for distribution to, and used by, the general public, including any product used by an employer or the employer's employees in the same form, concentration, and manner as it is sold to consumers, and to the employer's knowledge, employee exposure is not significantly greater than the consumer exposure occurring during principal consumer use of the product.

C. Any article, including but not limited to an item of equipment or hardware, which contains a hazardous substance, if the substance is present in a solid form which does not create a health hazard as a result of being handled by the employee.

D. Any hazardous substance that is bound and not released under normal conditions of work or in a reasonably foreseeable occurrence resulting from workplace operations.

E. Products sold or used in retail food sale establishments and all other retail trade establishments, exclusive of processing and repair work areas.

F. Any waste material regulated pursuant to the federal Resource Conservation and Recovery Act, Public Law 94-580, but only with respect to any employer in a business which provides a service of collection, processing, or disposal of such waste.

G. Waste products labeled pursuant to the Resource Conservation and Recovery Act. If hazardous substances make up the waste product, the employer must assure that mixing of incompatible substances does not occur.

H. Any substance received by an employer in a sealed package and subsequently sold or transferred in that package, if the seal remains intact while the substance is in the employer's workplace.

I. Any substance, mixture, or product if present in a physical state, volume, or mixture concentration for which there is no valid and substantial evidence that a significant risk to human health may occur from exposure.

J. "Liquor" as defined in Minnesota Statutes, section 340.07, subdivision 2, or "3.2 percent malt liquor" as defined in Minnesota Statutes, section 340A.101, subdivision 19.

K. "Food" as defined in the Federal Food, Drug, and Cosmetic Act, United States Code, title 27, section 321, et seq.

Subp. 3. **Updating list.** The list of hazardous substances shall be updated by the commissioner at least every two years.

Subp. 4. **Codes for list of hazardous substances.** The list of hazardous substances in subpart 5 is coded as follows to designate the reference document which contains occupational exposure information concerning the particular substance:

A. "A" - American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93," available from ACGIH, 6500 Glenway Avenue, Building D-7, Cincinnati, Ohio 45211-4438, (513) 661-7881.

B. "I" - American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA, P.O. Box 8390, Akron, Ohio 44320, (216) 873-2442. Effective October 31, 1992, the new mailing address will be: 2700 Prosperity Place, Merrifield, VA 22081.

C. "N" - National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer, 4676 Columbia Parkway, Cincinnati, Ohio 45226, general information (513) 533-8287.

D. "O" - Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division, 443 Lafayette Road, St. Paul, Minnesota 55101, (651) 296-2116.

E. "R" - International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA, 49 Sheridan Avenue, Albany, NY 12210; (518) 436-9686.

F. "S" - Occupational Safety and Health Administration proposed standards.

G. "T" - National Toxicology Program (NTP) "Fifth Annual Report on Carcinogens," 1989 (NTP 89-239). Order information: (919) 541-3991.

H. "\*" - An asterisk denotes substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).

I. "Dust" - If the substance poses an airborne particulate exposure hazard, the substance is followed by the word "dust."

J. "Fume" - Small solid particles formed by the condensation of vapors of solid materials.

K. "Gases" - Refers to displacement of air asphyxiation hazard.

L. "Skin" - If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

M. (number) - The number in parentheses following each substance is the American Chemical Society's Chemical Abstract Service (CAS) number for that substance. A particular substance may be known by more than one name. The CAS number eliminates the confusion caused by synonyms.

N.  $\alpha$  = Alpha.

O.  $\beta$  = Beta.

Subp. 5. **List of hazardous substances.** List of hazardous substances:

A. Hazardous substances beginning with the letter A:

(1)	Abate (see Temephos)	
(2)	*A- $\alpha$ -C (2-Amino-9H-pyrido[2,3-b]indole)	R
(3)	*Acetaldehyde (75-07-0)	AO
(4)	*Acetamide	R
(5)	Acetic acid (64-19-7)	AO
(6)	Acetic anhydride (108-24-7)	AO
(7)	Acetone (67-64-1)	AON
(8)	Acetone cyanohydrin (75-86-5)	IN
(9)	Acetonitrile-skin (75-05-8)	ANO
(10)	Acetophenone (98-86-2)	AI
(11)	*2-Acetylaminoflourene (53-96-3)	ONT
(12)	Acetylene (74-86-2)	AN
(13)	Acetylene dichloride (see 1,2-Dichloroethylene)	
(14)	Acetylene tetrabromide (79-27-6)	AO
(15)	Acetylsalicylic acid (Aspirin) (50-78-2)	A
(16)	Acrolein (107-02-8)	AO
(17)	*Acrylamide-skin (79-06-1)	ANOR
(18)	Acrylic acid (79-10-7)	A
(19)	*Acrylonitrile-skin (107-13-1)	ANORT
(20)	*Actinomycin D (50-76-0)	R
(21)	Adipic acid (124-04-9)	A
(22)	Adiponitrile (111-69-3)-skin	A
(23)	*Adriamycin (23214-92-8)	RT

(24)	*AF-2 [2-(2-furyl)-3-(5-nitro-2-furyl) acrylamide] (3688-53-7)	R
(25)	*Aflatoxins (1402-68-2)	RT
(26)	Alkanes	N
(27)	*Aldrin-skin (309-00-2)	AN
(28)	Allyl alcohol-skin (107-18-6)	AO
(29)	*Allyl chloride (107-05-1)	ANO
(30)	Allyl glycidyl ether (AGE)-skin (106-92-3)	ANO
(31)	Allyl isothiocyanate-skin (57-06-7)	I
(32)	Allyl propyl disulfide (2179-59-1)	AO
(33)	α-Alumina (1344-28-1)	A
(34)	Aluminum pyro powders (7429-90-5)	A
(35)	Aluminum welding fumes (7429-90-5)	A
(36)	Aluminum, soluble salts (7429-90-5)	A
(37)	Aluminum, metal dust (7429-90-5)	A
(38)	Aluminum oxide (1344-28-1)	A
(39)	Aluminum, alkyls (7429-90-5)	A
(40)	*2-Aminoanthraquinone (117-79-3)	T
(41)	*para-Aminoazobenzene	R
(42)	*ortho-Aminoazotoluene	R
(43)	p-Aminobenzoic acid (150-13-0)	I
(44)	Aminobiphenyl (see 4-Aminodiphenyl)	
(45)	*4-Aminodiphenyl-skin (92-67-1)	ANOT
(46)	2-Aminoethanol (see Ethanolamine)	
(47)	*1-Amino-2-methylanthraquinone (82-28-0)	T
(48)	*2-Amino-5-(5-nitro-2-furyl)-1,3,4-thiadiazole	R
(49)	2-Aminopyridine (504-29-0)	AO
(50)	3-Amino 1,2,4-triazole (see Amitrole)	
(51)	*Amitrole (61-82-5)	ART
(52)	Ammonia (7664-41-7)	ANOS
(53)	Ammonium chloride, fume (12125-02-9)	A
(54)	Ammonium perfluorooctanoate-skin (3825-26-1)	A
(55)	Ammonium sulfamate (7773-06-0)	AO
(56)	n-Amyl acetate (628-63-7)	AO
(57)	sec-Amyl acetate (626-38-0)	AO
(58)	*Analgesic mixture containing phenacetin	R
(59)	*Aniline and homologues-skin (62-53-3)	AO
(60)	*Anisidine (o-p isomers)-skin (29191-52-4)	AOT
(61)	*o-Anisidine hydrochloride (134-29-2)	T
(62)	*Anthracene oils	R
(63)	Antimony and compounds, as Sb (7440-36-0)	ANO

(64)	*Antimony trioxide, handling and use, as Sb production (1309-64-4)	A
(65)	ANTU ( $\alpha$ -Naphthyl thiourea) (86-88-4)	AO
(66)	*Aramite® (140-57-8)	R
(67)	Argon (7440-37-1)	A
(68)	*Arsenic, elemental inorganic, and organic compounds, As (7440-38-2)	ANORT
(69)	Arsine (7784-42-1)	ANO
(70)	*Asbestos (all forms) (1332-21-4)	ANORT
(71)	Asphalt (petroleum) fumes (8052-42-4)	AN
(72)	Atrazine (1912-24-9)	A
(73)	*Auramine (technical grade) (492-80-8)	R
(74)	*Azaserine	R
(75)	*Azathioprine (446-86-6)	RT
(76)	Azinphos-methyl-skin (86-50-0)	AO

B. Hazardous substances beginning with the letter B:

(1)	Barium, soluble compounds, as Ba (7440-39-3)	AO
(2)	Barium, sulfate (7727-43-7)	A
(3)	Baygon (Propoxur) (114-26-1)	A
(4)	Baytex (see Fenthion)	
(5)	Benomyl (17804-35-2)	A
(6)	*Benz[a]anthracene (56-55-3)	ART
(7)	Benzaldehyde (100-52-7)	I
(8)	*Benzene (71-43-2)	ANORT
(9)	Benzenethiol (108-98-5)	N
(10)	*Benzidine-based dyes	N
(11)	*Benzidine-skin (92-87-5)	AONRT
(12)	*Benzo[b]fluoranthene (205-99-2)	ART
(13)	*Benzo[j]fluoranthene (205-82-3)	R
(14)	*Benzo[k]fluoranthene (207-08-9)	R
(15)	Benzophenone	I
(16)	p-Benzoquinone (see Quinone)	
(17)	*Benzotrichloride (98-07-7)	RT
(18)	Benzoyl chloride (98-88-4)	IN
(19)	Benzoyl peroxide (94-36-0)	ANO
(20)	*Benzo[a]pyrene (50-32-8)	ART
(21)	Benzyl acetate (140-11-4)	A
(22)	Benzyl alcohol	I
(23)	*Benzyl chloride (100-44-7)	ANO
(24)	*Benzyl violet 4B	R

(25)	*Beryllium (and compounds) (7440-14-7)	ANMORT
(26)	Biphenyl (Diphenyl) (92-52-4)	AO
(27)	*N,N-Bis (2-chloroethyl)-2-naphthylamine (chlornaphazine) (49-40-31)	R
(28)	*Bischloroethyl nitrosourea (BCNU) (154-93-8)	RT
(29)	Bis-(2-chloroisopropyl) ether (108-60-1)	I
(30)	*Bischloromethyl ether and technical grade chloromethyl methyl ether (BCME) (542-88-1) and (107-30-2)	AORT
(31)	Bismuth telluride (1304-82-1)	A
(32)	Bismuth telluride; Se-doped (1304-82-1)	A
(33)	*Bitumens (8052-42-4) (extracts of steam-refined, air-refined, and pooled mixtures of steam and air refined)	R
(34)	*Bleomycins	R
(35)	Borates, tetra, sodium salts (1303-96-4) Anhydrous Decahydrate Pentahydrate	A
(36)	Boron oxide (1303-86-2)	AO
(37)	Boron tribromide (10294-33-4)	A
(38)	Boron trifluoride (7637-07-2)	ANO
(39)	Bromacil (314-40-9)	A
(40)	Bromine (7726-95-6)	AO
(41)	Bromine pentafluoride (7789-30-2)	A
(42)	Bromochloromethane (see Chlorobromomethane)	
(43)	Bromoform-skin (75-25-2)	AO
(44)	Bromotrifluoromethane (see Trifluorobromomethane)	
(45)	*Butadiene (1,3-Butadiene) (106-99-0)	ANOR
(46)	Butane (106-97-8)	A
(47)	Butanethiol (see Butyl mercaptan)	
(48)	*1,4-Butanediol dimethylsulfonate (Myleran) (55-98-1)	RT
(49)	2-Butanone (see Methyl Ethyl Ketone (MEK))	
(50)	2-Butoxyethanol(EGBE)-skin (111-76-2)	AO
(51)	n-Butyl acetate (123-86-4)	AO
(52)	sec-Butyl acetate (105-46-4)	AO
(53)	tert-Butyl acetate (540-88-5)	AO
(54)	Butyl acrylate (141-32-2)	A
(55)	n-Butyl alcohol-skin (71-36-3)	AO
(56)	sec-Butyl alcohol (78-92-2)	AO
(57)	tert-Butyl alcohol (75-65-0)	AO
(58)	Butylamine-skin (109-73-9)	AO

(59)	*Butylated hydroxyanisole (BHA)	R
(60)	Butyl cellosolve (see 2-Butoxy ethanol)	
(61)	4-tert Butylcatechol	I
(62)	tert-Butyl chromate, as CrO <sub>3</sub> -skin (1189-85-1)	AO
(63)	Butylene oxide (106-99-9) and (106-88-7)	I
(64)	n-Butyl glycidyl ether (BGE) (2426-08-6)	AO
(65)	n-Butyl lactate (138-22-7)	A
(66)	Butyl mercaptan (109-79-5)	ANO
(67)	o-sec-Butylphenol-skin (89-72-5)	A
(68)	p-tert-Butyltoluene (98-51-1)	AO
(69)	Butyraldehyde	I
(70)	*β-Butyrolactone	R
(71)	n-Butyronitrile (109-74-0)	N

C. Hazardous substances beginning with the letter C:

(1)	Cadmium (7440-43-9) and its compounds (as Cd)	ANRT
(2)	*Cadmium (7440-43-9), dust and salts (as Cd), fume	ANO
(3)	Cadmium oxide (1306-19-0), fume (as Cd)	ANO
(4)	*Cadmium oxide production (as Cd)	A
(5)	Calcium carbonate (1317-65-3)	A
(6)	*Calcium chromate, (as Cr) (13765-19-0)	A
(7)	Calcium cyanamide (156-62-7)	A
(8)	Calcium hydroxide (1305-62-0)	A
(9)	Calcium oxide (1305-78-8)	AO
(10)	Calcium silicate (synthetic) (1344-95-2)	A
(11)	Calcium sulfate (7778-18-9)	A
(12)	Camphor, synthetic (76-22-2)	AO
(13)	Caprolactam, dust and vapor (105-60-2)	A
(14)	Captafol-skin (2425-06-1)	A
(15)	Captan (133-06-2)	A
(16)	Carbaryl (Sevin <sup>®</sup> ) (63-25-2)	ANO
(17)	Carbofuran (Furadan) (1563-66-2)	A
(18)	*Carbon black (1333-86-4)	ANOR
(19)	Carbon dioxide (124-38-9)	ANO
(20)	Carbon disulfide-skin (75-15-0)	ANO
(21)	Carbon monoxide (630-08-0)	ANO
(22)	Carbon tetrabromide (558-13-4)	A
(23)	*Carbon tetrachloride-skin (56-23-5)	ANORT
(24)	Carbonyl chloride (see Phosgene)	
(25)	Carbonyl fluoride (353-50-4)	A

(26)	*Carrageenan, degraded (9000-07-01)	R
(27)	Catechol-skin (120-80-9)	A
(28)	Cellosolve acetate (see 2-Ethoxyethyl acetate)	
(29)	Cellulose (paper fiber) (9004-34-6)	A
(30)	*Certain combined chemotherapy for lymphomas (including MOPP)	RT
(31)	Cesium hydroxide (21351-79-1)	A
(32)	*Chlorambucil (305-03-3)	RT
(33)	*Chloramphenicol (56-75-7)	IR
(34)	*Chlordane-skin (57-74-9)	AO
(35)	*Chlordecone (KEPONE) (143-50-0)	NRT
(36)	*Chlorendic acid (115-28-6)	T
(37)	*Chlorinated camphene (Toxaphene)-skin (8001-35-2)	AOT
(38)	Chlorinated diphenyl oxide (31242-93-0)	AOT
(39)	*Chlorinated paraffins (C <sub>12</sub> , 60% Chlorine) (108171-26-2)	T
(40)	* $\alpha$ -Chlorinated toluenes	R
(41)	Chlorine (7782-50-5)	ANO
(42)	Chlorine dioxide (10049-04-4)	AO
(43)	Chlorine trifluoride (7790-91-2)	AO
(44)	Chloroacetaldehyde (107-20-0)	AO
(45)	Chloroacetone-skin (78-95-5)	A
(46)	$\alpha$ -Chloroacetophenone (Phenacylchloride) (532-27-4)	AO
(47)	Chloroacetyl chloride-skin (79-04-9)	A
(48)	Chlorobenzene (Monochlorobenzene) (108-90-7)	AO
(49)	o-Chlorobenzylidene malononitrile (OCBM)-skin (2698-41-1)	AO
(50)	Chlorobromomethane (74-97-5)	AO
(51)	2-Chloro-1,3-butadiene (see $\beta$ -Chloroprene)	
(52)	Chlorodifluoromethane (75-45-6)	A
(53)	*Chlorodiphenyl-skin (PCB) 42% Chlorine (53469-21-9) 54% Chlorine (11097-69-1)	AORT
(54)	1-Chloro,2,3-epoxy-propane (see Epichlorohydrin)	
(55)	Chloroethane (75-00-3)	N
(56)	2-Chloroethanol (see Ethylene chlorohydrin)	
(57)	Chloroethylene (see Vinyl chloride)	
(58)	*1-(2-chloroethyl)-3-cyclohexyl-1-nitrosourea (CCNU) (13010-47-4)	RT
(59)	*1-(2-chloro ethyl)-3-(4-methylcyclohexyl)-1-nitrosourea (methyl-CCNU)	R
(60)	*Chloroform (67-66-3)	ANORT
(61)	bis (2-Chloroisopropyl) ether (108-60-1)	I
(62)	*bis (Chloromethyl) ether (BCME) (542-88-1)	ANO

(63)	*Chloromethyl methyl ether (see Methylchloromethyl ether)	
(64)	*3-Chloro-2-methylpropene (563-47-3)	T
(65)	1-Chloro-1-nitropropane (600-25-9)	AO
(66)	*4-Chloro-o-phenylenediamine (95-83-0)	RT
(67)	Chloropentafluoroethane (76-15-3)	A
(68)	*Chlorophenols (95-57-8; 106-48-9)	R
(69)	*Chlorophenoxy herbicides	R
(70)	Chloropicrin (Trichloronitromethane) (76-06-2)	AO
(71)	*para-Chloro-ortho-toluidine	R
(72)	*β-Chloroprene-skin (126-99-8)	ANO
(73)	2-Chloropropionic acid-skin (598-78-7)	A
(74)	o-Chlorostyrene (2039-87-4)	A
(75)	Chlorosulfonic acid (7790-94-5)	I
(76)	o-Chlorotoluene-skin (95-49-8)	A
(77)	2-Chloro-6-(trichloromethyl) pyridine (see Nitrapyrin)	
(78)	Chloropyrifos-skin (2921-88-2)	A
(79)	Chlorotrifluoroethylene (79-38-9)	I
(80)	*Chromates of lead (7758-97-6), zinc (14018-95-2), calcium (13765-19-0), and strontium (7789-06-2)	ART
(81)	Chromic acid (7738-94-5)	NO
(82)	*Chromite ore processing (Chromate), as Cr	A
(83)	Chromium metal (7440-47-3)	AO
(84)	Chromium (II) compounds, as Cr	A
(85)	Chromium (III) compounds, as Cr	A
(86)	*Chromium (VI) compounds, as Cr (water soluble)	ANO
(87)	*Chromium (VI) compounds	AN
(88)	*Chromium (VI) compounds, (certain water insoluble ones)	ANORT
(89)	*Chromyl chloride (14977-61-8)	A
(90)	*Chrysene (218-01-9)	AN
(91)	Chrysotile (see Asbestos)	
(92)	*C.I. Basic Red 9 Monohydrochloride (569-61-9)	T
(93)	*Cisplatin (15663-27-1)	R
(94)	*Citrus Red No. 2	R
(95)	Clopidol (2971-90-6)	A
(96)	Coal, dust	AO
(97)	*Coal tars, coal tar pitches, and coal tar pitch volatiles (as benzene solubles) (65996-93-2)	ANORT
(98)	Cobalt (as Co) metal dust and fume (7440-48-4)	ANO
(99)	Cobalt carbonyl, (as Co) (10210-68-1)	A
(100)	Cobalt, elemental and inorganic compounds, as Co (7440-48-4)	A

(101)	Cobalt hydrocarbonyl, (as Co) (16842-03-8)	A
(102)	*Coke oven emissions	NOT
(103)	*Combined oral contraceptives (compound(s) responsible for the carcinogenic effect in humans cannot be specified. Individual compounds in combined oral contraceptives include: ethinyl-oestradiol, mestranol, chlormadinone, acetate, dimethisterone, ethynodiol, diacetate, lynoestrenol, megestrol acetate, norethisterone, norethynodrel, and norgestrel)	R
(104)	*Conjugated estrogens (Conjugated estrogens are an amorphous mixture containing naturally occurring forms of mixed estrogens, principally sodium estrone sulfate and sodium equilan sulfate)	RT
(105)	Copper dust and mists, (as Cu) (7440-50-8)	AO
(106)	Copper fume (7440-50-8)	AO
(107)	Cotton dust, raw	ANO
(108)	Crag <sup>®</sup> herbicide (see Sodium-2,4-dichloro-p-nenoxyethyl sulfate)	
(109)	*Creosotes (8001-58-9)	R
(110)	*p-Cresidine (120-71-8)	RT
(111)	Cresol, all isomers-skin (1319-77-3)	ANO
(112)	Cristobalite (see Silica - crystalline)	
(113)	Crocidolite (see Asbestos)	
(114)	*Crotonaldehyde (4170-30-3)	AO
(115)	Crufomate (299-86-5)	A
(116)	Cumene-skin (98-82-8)	AO
(117)	*Cupferron (135-20-6)	T
(118)	Cyanamide (420-04-2)	A
(119)	Cyanides, as Cn-skin (151-50-8; 143-33-9)	AO
(120)	Cyanogen (460-19-5)	A
(121)	Cyanogen chloride (506-77-4)	A
(122)	*Cycasin (14901-08-7)	R
(123)	Cyclohexane (110-82-7)	AO
(124)	Cyclohexanethiol (1569-69-3)	N
(125)	Cyclohexanol-skin (108-93-0)	AO
(126)	Cyclohexanone-skin (108-94-1)	ANO
(127)	Cyclohexene (110-83-8)	AO
(128)	Cyclohexylamine (108-91-8)	A
(129)	Cyclonite-skin (121-82-4)	A
(130)	Cyclopentadiene (542-92-7)	AO
(131)	Cyclopentane (287-92-3)	A
(132)	*Cyclophosphamide (50-18-0)	RT
(133)	Cyhexatin (13121-70-5)	A

## D. Hazardous substances beginning with the letter D:

(1)	*Dacarbazine (4342-03-04)	RT
(2)	*Daunomycin	R
(3)	2,4-D (2,4-Dichlorophenoxyacetic acid) (94-75-7)	AO
(4)	DBCP (see 1,2-Dibromo-3-chloropropane)	
(5)	*DDT (Dichlorodiphenyltrichloroethane) (50-29-3)	ANORT
(6)	DDVP (see Dichlorvos)	
(7)	Decaborane-skin (17702-41-9)	AO
(8)	Decabromodiphenyl oxide (1163-19-5)	I
(9)	Demeton-skin (8065-48-3)	AO
(10)	Diacetone alcohol (4-Hydroxy-4-methyl-2-pentanone) (123-42-2)	ANO
(11)	*N,N'-Diacetylbenzidine	R
(12)	*2,4-Diaminoanisole and its salts (615-05-4)	N
(13)	*2,4-Diaminoanisole sulfate (39156-41-7)	T
(14)	*4,4'-Diaminodiphenyl ether	R
(15)	1,2-Diaminoethane (see Ethylenediamine)	
(16)	*2,4-Diaminotoluene (95-80-7)	RT
(17)	*o-Dianisidine-based dyes	N
(18)	Diatomaceous earth (see Silica - Amorphous)	
(19)	Diazinon-skin (333-41-5)	A
(20)	*Diazomethane (334-88-3)	AO
(21)	*Dibenz[a,h]acridine (22-6-36-8)	RT
(22)	*Dibenz[a,j]acridine (224-42-0)	RT
(23)	*Dibenz[a,h]anthracene (53-70-3)	RT
(24)	*7H-Dibenzo[c,g]carbazole (194-59-2)	RT
(25)	*Dibenzo[a,e]pyrene (192-65-4)	R
(26)	*Dibenzo[a,h]pyrene (189-64-0)	RT
(27)	*Dibenzo[a,i]pyrene (189-55-9)	RT
(28)	*Dibenzo[a,l]pyrene (191-30-0)	R
(29)	Diborane (19287-45-7)	AO
(30)	*1,2-Dibromo-3-chloropropane (DBCP) (96-12-8)	NORT
(31)	*1,2-Dibromoethane (see Ethylene dibromide)	
(32)	Dibrom (Dimethyl-1,2-dibromo-2-dichloroethylphosphate) (300-76-5)	A
(33)	2-N-Dibutylaminoethanol-skin (102-81-8)	A
(34)	Dibutylphenylphosphate-skin (2528-36-1)	A
(35)	Dibutyl phosphate (107-66-4)	AO
(36)	Dibutyl phthalate (84-74-2)	AO
(37)	*Dichloroacetylene (7572-29-4)	A
(38)	o-Dichlorobenzene (95-50-11)	AO

(39)	*1,4-Dichlorobenzene (106-46-7)	AORT
(40)	*3,3'-Dichlorobenzidine (and salts)-skin (91-94-11)	ANORT
(41)	*3,3'-Dichlorobenzidine dihydrochloride (612-83-9)	T
(42)	1,4-Dichloro-2-butene-skin (764-41-0)	A
(43)	Dichlorodifluoromethane (75-71-8)	AO
(44)	*3,3'-Dichloro-4,4'-diaminodiphenyl ether	R
(45)	1,3-Dichloro-5,5-dimethyl hydantoin (118-52-5)	AO
(46)	*1,1-Dichloroethane (75-34-3)	ANORT
(47)	1,2-Dichloroethane (see Ethylene dichloride)	
(48)	1,1-Dichloroethylene (see Vinylidene chloride)	
(49)	1,2-Dichloroethylene (540-59-0)	AO
(50)	Dichloroethyl ether-skin (111-44-4)	AO
(51)	Dichlorofluoromethane (75-43-4)	A
(52)	Dichloromethane (see Methylene chloride)	
(53)	Dichloromonofluoromethane (75-43-4)	O
(54)	1,1-Dichloro-1-nitroethane (594-72-9)	AO
(55)	1,2-Dichloropropane (see Propylene dichloride)	
(56)	*1,3-Dichloropropene (technical grade) (542-75-6)	RT
(57)	Dichloropropene-skin (542-75-6)	A
(58)	2,2-Dichloropionic acid (75-99-0)	A
(59)	Dichlorotetrafluoroethane (Fluorocarbon 114) (76-14-2)	AO
(60)	Dichlorvos (DDVP)-skin (62-73-7)	AO
(61)	Dicrotophos-skin (141-66-2)	A
(62)	Dicyclohexylmethane-4,4'-diisocyanate (5124-30-1)	N
(63)	Dicyclopentadiene (77-73-6)	A
(64)	Dicyclopentadienyl iron (102-54-5)	A
(65)	*Dieldrin-skin (60-57-1)	ANO
(66)	*Dienoestrol (84-17-3)	R
(67)	*Diepoxybutane (1464-53-5)	T
(68)	*Di-2,3-epoxy propyl ether	N
(69)	Diethanolamine (111-42-2)	A
(70)	Diethylamine (109-89-7)	AO
(71)	2-Diethylaminoethanol-skin (100-37-8)	AO
(72)	Diethylene dioxide (see Dioxane)	
(73)	Diethylene glycol (111-46-6)	I
(74)	Diethylene glycol monoethyl ether	I
(75)	Diethylene triamine-skin (111-40-0)	A
(76)	Diethyl ether (see Ethyl ether)	
(77)	*Diethyl hydrazine	R
(78)	Diethyl ketone (96-22-0)	A

(79)	Diethyl phthalate (84-66-2)	A
(80)	*Di(2-ethyhexyl)phthalate (DEHP) (117-81-7)	NRT
(81)	*Diethylstilbestrol (56-53-1)	RT
(82)	*Diethyl sulfate (64-67-5)	RT
(83)	Difluorodibromomethane (FREON 12B2) (75-61-6)	AO
(84)	*Diglycidyl resorcinol ether (DGE) (101-90-6)	ANORT
(85)	*Dihydrosafrole	R
(86)	Dihydroxybenzene (see Hydroquinone)	
(87)	Diisobutyl ketone (108-83-8)	ANO
(88)	Diisobutylene (25167-70-8)	IN
(89)	Diisocyanates (not including those listed separately)	N
(90)	Diisopropylamine-skin (108-18-9)	ANO
(91)	*3,3' Dimethoxybenzidine (ortho-Dianisidine) (119-90-4)	RT
(92)	Dimethoxymethane (see Methylal)	
(93)	Dimethyl acetamide-skin (127-19-5)	AO
(94)	Dimethylamine (124-40-3)	AO
(95)	*4-Dimethylaminoazobenzene (60-11-7)	NORT
(96)	Dimethylaminobenzene (see Xylidene)	
(97)	*trans-2-2[(Dimethylamino)methylimino] -5-[2-(5-nitro-2-furyl)vinyl]-1,3,4-oxadiazole	R
(98)	Dimethylaniline (N,N-Dimethylaniline)-skin (121-69-7)	AO
(99)	Dimethylbenzene (see Xylene)	
(100)	*3,3' Dimethylbenzidine (119-93-7)	RT
(101)	*Dimethylcarbamoyl chloride (79-44-7)	ART
(102)	Dimethyl-1,2-dibromo-2-dichloroethyl phosphate (see Naled)	
(103)	Dimethyl ether (115-10-6)	I
(104)	Dimethylformamide (N-methylformamide) (68-12-2)	AO
(105)	2,6-Dimethyl-4-heptanone (see Diisobutyl ketone)	
(106)	*1,1-Dimethylhydrazine-skin (57-14-7)	ANORT
(107)	*1,2-Dimethylhydrazine	R
(108)	Dimethylnitrosoamine (see N-Nitrosodimethylamine)	
(109)	Dimethylphthalate (131-11-3)	AO
(110)	*Dimethyl sulfate-skin (77-78-1)	AOTR
(111)	Dimethyl terephthalate (120-61-6)	I
(112)	*Dimethylvinyl chloride (513-37-1)	T
(113)	Dinitolmide (148-01-6)	A
(114)	Dinitrobenzene, all isomers-skin (528-29-0; 99-65-0; 100-25-4)	AO
(115)	Dinitro-o-cresol (DNOC)-skin (534-52-1)	ANO
(116)	3,5-Dinitro-o-toluamide (Zoalene) (148-01-6)	A
(117)	*Dinitrotoluene-skin (25321-14-6)	ANO

(118)	*1,4-Dioxane (Diethylene dioxide)-skin (123-91-1)	ANORT
(119)	Dioxathion (Delanov)-skin (78-34-2)	A
(120)	Dioxin (see 2,3,7,8-Tetrachlorodibenzo-p-dioxin)	
(121)	Diphenyl (see Biphenyl)	
(122)	Diphenylamine (122-39-4)	A
(123)	Diphenyl ether (see Phenyl ether)	
(124)	Diphenylmethane diisocyanate (see Methylene bisphenyl isocyanate (MDI))	
(125)	Dipropylene glycol methyl ether (34590-94-8)	AO
(126)	Dipropyl ketone (4-Heptanone) (123-19-3)	A
(127)	Diquat dust (231-36-7)-skin	A
(128)	*Direct Black 38 (technical grade) (1937-37-7)	RT
(129)	*Direct Blue 6 (technical grade) (2602-46-2)	RT
(130)	*Direct Brown 95 (technical grade) (16071-86-6)	R
(131)	*Di-sec-octyl phthalate (di(2-Ethylhexyl)phthalate) (117-81-7)	AO
(132)	Disulfiram (97-77-8)	A
(133)	Disulfoton (Disyston) (298-04-4)	A
(134)	2,6-Di-tert-butyl-p-cresol (128-37-0)	A
(135)	Diuron (330-54-1)	A
(136)	Divinyl benzene (1321-74-0)	A
(137)	Dust, Inert or Nuisance (When toxic impurities are not present, for example, quartz less than 1 percent.) Including:	A
	(a) $\alpha$ -Alumina ( $Al_2O_3$ );	
	(b) Aluminum, metal and oxide;	
	(c) Calcium carbonate;	
	(d) Calcium silicate;	
	(e) Calcium sulfate;	
	(f) Cellulose (paper fiber);	
	(g) Emery;	
	(h) Glycerin Mist;	
	(i) Graphite (synthetic);	
	(j) Gypsum;	
	(k) Kaolin;	
	(l) Limestone;	

- (m) Magnesite;
  - (n) Marble;
  - (o) Mineral Wool Fiber;
  - (p) Pentaerythritol;
  - (q) Perlite;
  - (r) Plaster of Paris;
  - (s) Portland Cement;
  - (t) Precipitated Silica;
  - (u) Rouge;
  - (v) Silica gel;
  - (w) Silicon;
  - (x) Silicon Carbide;
  - (y) Starch;
  - (z) Stearates;
  - (aa) Sucrose;
  - (bb) Titanium Dioxide;
  - (cc) Vegetable oil mists (except castor, cashew nut, or similar irritant oils);
  - (dd) Zinc Stearate; and
  - (ee) Zinc Oxide Dust.
- (138) Dyfonate-skin (944-22-9) A
- E. Hazardous substances beginning with the letter E:
- (1) Emery (1302-74-5) A
  - (2) Endosulfan (Thiodan)-skin (115-29-7) A
  - (3) Endrin-skin (72-20-8) AO
  - (4) Enflurane (13838-16-9) A
  - (5) Enzymes (see Subtilisins)
  - (6) \*Epichlorohydrin-skin (106-89-8) ANORT
  - (7) EPN-skin (2104-64-5) AO
  - (8) 1,2-Epoxypropane (see Propylene oxide)
  - (9) 2,3-Epoxy-1-propanol (see Glycidol)
  - (10) \*Erionite R

(11)	Erythromycin (114-07-8)	I
(12)	*Estrogens (not conjugated):	
	1. Estradiol 17 $\beta$ (50-28-2)	T
	2. Estrone (53-16-7)	T
	3. Ethinyl estradiol (57-63-6)	T
	4. Mestranol (72-33-3)	T
(13)	Ethane (74-84-0)	A
(14)	Ethanethiol (see Ethyl mercaptan)	
(15)	Ethanol (see Ethyl alcohol)	
(16)	Ethanolamine (141-43-5)	A
(17)	*Ethinyl-oestradiol (57-63-6)	R
(18)	Ethion-skin (563-12-2)	A
(19)	2-Ethoxyethanol-skin (110-80-5)	ANO
(20)	2-Ethoxyethyl acetate-skin (111-15-9)	AO
(21)	Ethyl acetate (141-78-6)	AO
(22)	*Ethyl acrylate-skin (140-88-5)	AORT
(23)	Ethyl alcohol (Ethanol) (64-17-5)	AO
(24)	Ethylamine (75-04-7)	AO
(25)	Ethyl amyl ketone (5-Methyl-3-Heptanone) (541-85-5)	AO
(26)	Ethyl benzene (100-41-4)	AO
(27)	*Ethyl bromide-skin (74-96-4)	AO
(28)	Ethyl butyl ketone (3-Heptanone) (106-35-4)	AO
(29)	Ethyl chloride (75-00-3)	AO
(30)	Ethylene (74-85-1)	A
(31)	Ethylene Chlorohydrin-skin (107-07-3)	AO
(32)	Ethylenediamine (107-15-3)	AO
(33)	*Ethylene dibromide-skin (106-93-4)	ANORT
(34)	*Ethylene dichloride (1,2-Dichloroethane) (107-06-2)	ANOT
(35)	Ethylene glycol (107-21-1), particulate and vapor	A
(36)	Ethylene glycol dinitrate (EGDN)-skin (628-96-6)	ANO
(37)	Ethylene glycol methyl ether acetate-skin (110-49-6)	AO
(38)	*Ethylenimine-skin (151-56-4)	ANO
(39)	*Ethylene oxide (75-21-8)	ANOSRT
(40)	*Ethylene thiourea (96-45-7)	NRT
(41)	Ethylenimine-skin (151-56-4)	A
(42)	Ethyl ether (60-29-7)	AO
(43)	Ethyl formate (109-94-4)	A
(44)	Ethylidene chloride (see 1,1-Dichloroethane)	
(45)	Ethylidene norbornene (16219-75-3)	A

(46)	Ethyl mercaptan (75-08-1)	ANO
(47)	*Ethyl methanesulfonate	R
(48)	N-Ethylmorpholine-skin (100-74-3)	AO
(49)	*N-Ethyl-N-nitrosourea	R
(50)	Ethyl silicate (78-10-4)	AO

F. Hazardous substances beginning with the letter F:

(1)	Fenamiphos-skin (22224-92-6)	A
(2)	Fensulfothion (Dasanit) (115-90-2)	A
(3)	Fenthion (55-38-9)	A
(4)	Ferbam (14484-64-1)	AO
(5)	Ferrovandium; dust (12604-58-9)	AO
(6)	Fibrous glass dust (see Glass)	
(7)	Fluoride, as F, as dust (16984-48-8)	ANO
(8)	Fluorides, inorganic	N
(9)	Fluorine (7782-41-4)	AO
(10)	Fluorocarbon, Polymers (decomposition products of)	N
(11)	Fluorocarbon 11 (see Trichlorofluoromethane)	
(12)	Fluorocarbon 12 (see Dichlorodifluoromethane)	
(13)	Fluorocarbon 13b1 (see Trifluoromonobromomethane)	
(14)	Fluorocarbon 21 (see Dichlorofluoromethane)	
(15)	Fluorocarbon 22 (see Chlorodifluoromethane)	
(16)	Fluorocarbon 112 (see 1,1,2,2-Tetrachloro-1,2-difluoroethane)	
(17)	Fluorocarbon 113 (see 1,1,2-Trichloro-1,2,2-trifluoroethane)	
(18)	Fluorocarbon 114 (see Dichlorotetrafluoroethane)	
(19)	Fluorocarbon 115 (see Chloropentafluoroethane)	
(20)	Fluorotrichloromethane (see Trichlorofluoromethane)	
(21)	Fonofos-skin (944-22-9)	AO
(22)	*Formaldehyde (50-00-0)	ANORT
(23)	Formamide-skin (75-12-7)	A
(24)	Formic acid (64-18-6)	AO
(25)	*2-(2-Formylhydrazino)-4-(5-nitro-2-furyl)thiazole	R
(26)	Furfural-skin (98-01-1)	A
(27)	Furfuryl alcohol-skin (98-00-0)	AN

G. Hazardous substances beginning with the letter G:

(1)	*Gallium arsenide (7440-55-3)	N
(2)	Gases, Simple Asphyxiants (see separate listings):	A

(a) Acetylene;

- (b) Argon;
  - (c) Ethane;
  - (d) Ethylene;
  - (e) Helium;
  - (f) Hydrogen;
  - (g) Methane;
  - (h) Neon;
  - (i) Propane; and
  - (j) Propylene.
- (3) Gasoline (8006-61-9) A
  - (4) Germanium tetrahydride (7782-65-2) A
  - (5) Glass, fibrous or dust AN
  - (6) \*Glu-P-1(2-Amino-6-methyldipyrido[1,2-a:3; 2'-d])imidazole R
  - (7) \*Glu-P-2(2-Aminodipyrido[1,2-a:3;2'-d])imidazole R
  - (8) Glutaraldehyde (111-30-8) A
  - (9) Glycerin mist (56-81-5) A
  - (10) \*Glycidaldehyde R
  - (11) Glycidol (2,3-Epoxy-1-propanol) (556-52-5) AO
  - (12) \*Glycidyl ethers N
  - (13) Glycol monoethyl ether (see 2-Ethoxyethanol)
  - (14) Glycolonitrile (107-16-4) N
  - (15) Grain Dust (oat, wheat, barley) A
  - (16) Graphite (all forms except graphite fibers)-dust (7782-42-5) AO
  - (17) \*Griseofulvin R
  - (18) Guthion (see Azinphos-methyl)
  - (19) Gypsum (see calcium sulfate)
  - (20) \*Gyromitrin (16568-02-8) (acetaldehyde formyl-methyl hydrazone) R

H. Hazardous substances beginning with the letter H:

- (1) Hafnium (7440-58-6) AO
- (2) Halothane (151-67-7) AN
- (3) Halowax (see Hexachloronaphthalene)
- (4) Helium (7440-59-7) A
- (5) \*Heptachlor and heptachlor epoxide-skin (76-44-8) AO
- (6) Heptane (n-Heptane) (142-82-5) ANO
- (7) 2-Heptanone (see Methyl n-amyl ketone)

(8)	3-Heptanone (see Ethyl butyl ketone)	
(9)	*Hexachlorobenzene-skin (118-74-1)	AT
(10)	*Hexachlorobutadiene (76-68-3)	A
(11)	*Hexachlorocyclohexane isomers (including Lindane)	RT
(12)	Hexachlorocyclopentadiene (77-47-4)	A
(13)	*Hexachloroethane-skin (67-72-1)	ANO
(14)	Hexachloronaphthalene (Halowax 1014)-skin (1335-87-1)	AO
(15)	Hexadiene (592-42-7)	I
(16)	Hexafluoroacetone-skin (684-16-2)	A
(17)	*Hexamethylphosphoramide-skin (680-31-9)	ART
(18)	Hexamethylene diamine (124-09-4)	I
(19)	Hexamethylene diisocyanate (822-06-0)	AN
(20)	Hexane (n-Hexane) (110-54-3)	ANO
(21)	Hexane, other isomers (107-83-5; 107-83-2)	A
(22)	1,6-Hexanediamine (124-09-4)	A
(23)	1,6-Hexanediol diacrylate (13048-33-4)	I
(24)	1-Hexanethiol (111-31-9)	N
(25)	2-Hexanone (Methyl n-butyl ketone) (591-78-6)	AO
(26)	Hexone (Methyl isobutyl ketone) (108-10-1)	AO
(27)	sec-Hexyl acetate (108-84-9)	AO
(28)	Hexylene glycol (107-41-5)	A
(29)	*Hydrazine-skin (302-01-2)	ANORT
(30)	*Hydrazine sulfate (10034-93-2)	T
(31)	*Hydrazobenzene (122-66-7)	T
(32)	Hydrogen (1333-74-0)	A
(33)	Hydrogenated terphenyls (61788-32-7)	A
(34)	Hydrogen bromide (10035-10-6)	AO
(35)	Hydrogen chloride (7647-01-0)	AO
(36)	Hydrogen cyanide-skin (74-90-8)	ANO
(37)	Hydrogen fluoride (7664-39-3), as F	ANO
(38)	Hydrogen peroxide (7722-84-1)	A
(39)	Hydrogen peroxide (90%) (7722-84-1)	O
(40)	Hydrogen selenide, as Se (7783-07-5)	AO
(41)	Hydrogen sulfide (7783-06-4)	ANO
(42)	Hydroquinone (123-31-9)	ANO
(43)	4-Hydroxy-4-methyl-2-pentanone (see Diacetone alcohol)	
(44)	2-Hydroxypropyl acrylate-skin (999-61-1)	A

I. Hazardous substances beginning with the letter I:

(1)	Indene (95-13-6)	A
(2)	*Indeno(1,2,3-cd)pyrene (193-39-5)	RT
(3)	Indium (7440-74-6) and compounds, as In	A
(4)	Inert or Nuisance Dusts (see Dust)	
(5)	Iodine (7553-56-2)	AO
(6)	Iodoform (75-47-8)	A
(7)	*IQ (2-Amino-3-methylimidazo[4,5-f]quinoline)	R
(8)	*Iron dextran complex (9004-66-4)	RT
(9)	Iron oxide fume (Fe <sub>2</sub> O <sub>3</sub> ) (1309-37-1), as Fe	AO
(10)	Iron pentacarbonyl (13463-40-6), as Fe	A
(11)	Iron salts, soluble, as Fe	A
(12)	Isoamyl acetate (123-92-2)	AO
(13)	Isoamyl alcohol (123-51-3)	AO
(14)	Isobutyl acetate (110-19-0)	AO
(15)	Isobutyl alcohol (78-83-1)	AO
(16)	Isobutyronitrile (78-82-0)	N
(17)	Isocyanuric acid (108-80-5)	I
(18)	Isooctyl alcohol-skin (26952-21-6)	A
(19)	Isophorone (78-59-1)	ANO
(20)	Isophorone diisocyanate-skin (4098-71-9)	AN
(21)	Isophthalic acid	I
(22)	Isoprene (78-79-5)	I
(23)	Isopropoxyethanol (109-59-1)	A
(24)	Isopropyl acetate (108-21-4)	AO
(25)	Isopropyl acetone (see Methyl isobutyl ketone)	
(26)	Isopropyl alcohol (67-63-0)	ANO
(27)	Isopropylamine (75-31-0)	A
(28)	N-Isopropylaniline-skin (768-52-5)	A
(29)	Isopropyl ether (108-20-3)	AO
(30)	Isopropyl glycidyl ether (IGE) (4016-14-2)	ANO

J. Hazardous substances beginning with the letter K:

(1)	Kaolin dust (1332-58-7)	A
(2)	*Kepone® (see Chlordecone)	
(3)	Ketene (463-51-4)	AO

K. Hazardous substances beginning with the letter L:

(1)	*Lasiocarpine	R
(2)	*Lead (7439-92-1), inorganic fumes and dusts, as Pb	ANO
(3)	*Lead acetate (301-04-2)	T

(4)	Lead arsenate (10102-48-4), as $Pb_3(AsO_4)_2$	A
(5)	*Lead chromate, as Pb and Cr (7758-97-6)	A
(6)	*Lead phosphate (7446-27-7)	T
(7)	Limestone (see Calcium carbonate)	
(8)	*Lindane-skin (and other hexachlorocyclohexane isomers) (58-89-9)	AOT
(9)	Lithium hydride (7580-67-8)	AO
(10)	Lithium hydroxide (and monohydrate) (1310-65-2)	I
	(and monohydrate portion) (1310-66-3)	I
(11)	Lithium oxide (12057-248)	I
(12)	L.P.G. (Liquefied Petroleum Gas) (68476-85-7)	AO

L. Hazardous substances beginning with the letter M:

(1)	Magnesite (546-93-0)	A
(2)	Magnesium oxide fume (1309-48-4)	AO
(3)	Malathion-skin (121-75-5)	ANO
(4)	Maleic anhydride (108-31-6)	AO
(5)	Malononitrile (109-77-3)	N
(6)	Mancozeb	I
(7)	Manganese, elemental and compounds, as Mn (7439-96-5)	AO
(8)	Manganese cyclopentadienyltricarbonyl (12079-65-1) as Mn-skin	A
(9)	Manganese tetroxide (1317-35-7)	A
(10)	Marble (see Calcium carbonate)	
(11)	*MeA-a-C(2-Amino-3-methyl-9H-pyrido[2,3-b]indole)	R
(12)	*Medroxyprogesterone acetate	R
(13)	*Melphalan (148-82-3)	RT
(14)	Mercaptoacetic acid (see Thioglycolic acid)	
(15)	Mercaptoethanol	I
(16)	Mercury, as Hg-skin (7439-97-6)	AN
(17)	*Merphalan	R
(18)	Mesityl oxide (141-79-7)	ANO
(19)	Mestranol (72-33-3)	R
(20)	Methacrylic acid (79-41-4)	A
(21)	Methane (74-82-8)	A
(22)	Methanethiol (see Methyl mercaptan)	
(23)	Methanol (see Methyl alcohol)	
(24)	Methomyl (Lannate)-skin (16752-77-5)	A
(25)	*Methoxsalen with ultra-violet A therapy (PUVA)	RT
(26)	Methoxychlor (72-43-5)	AO
(27)	2-Methoxyethanol (Methyl cellosolve)-skin (109-86-4)	AO
(28)	2-Methoxyethyl acetate-skin (110-49-6)	A

(29)	4-Methoxyphenol (150-76-5)	A
(30)	3-Methoxypropylamine (5332-73-0)	I
(31)	*Methoxsalen (with ultra-violet A therapy, PUVA)	R
(32)	Methyl acetate (79-20-9)	AO
(33)	Methyl acetylene (Propyne) (74-99-7)	AO
(34)	Methyl acetylene-propadiene mixture (MAPP)	AO
(35)	Methyl acrylate-skin (96-33-3)	AO
(36)	Methylacrylonitrile-skin (126-98-7)	A
(37)	Methylal (Dimethoxy methane) (109-87-5)	AO
(38)	Methyl alcohol (Methanol)-skin (67-56-1)	ANO
(39)	Methylamine (74-89-5)	AO
(40)	Methyl amyl alcohol (see Methyl isobutylcarbinol)-skin	
(41)	Methyl n-amyl ketone (2-Heptanone) (110-43-0)	ANO
(42)	N-Methyl aniline-skin (100-61-8)	A
(43)	*2-Methylaziridine (Propyleneimine) (75-55-8)	RT
(44)	*Methylazoxymethanol and its acetates	R
(45)	*Methyl bromide-skin (74-83-9)	ANO
(46)	Methyl-n-butyl ketone (591-78-6)	ANO
(47)	Methyl cellosolve-skin (109-86-4)	O
(48)	Methyl cellosolve acetate (Ethylene glycol monomethyl etheracetate)-skin (110-49-6)	AO
(49)	*Methyl chloride (74-87-3)	ANO
(50)	Methyl chloroform (1,1-Trichloroethane) (71-55-6)	ANO
(51)	*Methyl chloromethyl ether (107-30-2)	ANO
(52)	*5-Methylchrysene	R
(53)	Methyl-2-cyanoacrylate (137-05-3)	A
(54)	Methylcyclohexane (108-87-2)	AO
(55)	Methylcyclohexanol (25639-42-3)	AO
(56)	o-Methylcyclohexanone-skin (583-60-8)	AO
(57)	2-Methylcyclopentadienyl manganese tricarbonyl, as Mn-Skin (12108-13-3)	A
(58)	Methyl demeton-skin (8022-00-2)	A
(59)	*4,4'-Methylenebis(N,N-dimethyl)benzenamine (101-61-1)	T
(60)	Methylene bisphenyl isocyanate (MDI) (101-68-8)	ANO
(61)	*Methylene chloride (75-09-2)	ANO
(62)	*4,4'-Methylenebis(2-Chloroaniline) (MBOCA)-skin (101-14-4)	ANRT
(63)	*4,4'-Methylenebis(2-methylaniline)	R
(64)	*4,4'-Methylenebis(N,N-dimethyl)benzenamine (101-61-1)	T
(65)	Methylene bis-(4-cyclohexylisocyanate) (5124-30-1)	A

(66)	*4,4-Methylenedianiline-skin; and its dihydrochloride (101-77-9) and (13552-44-8)	ANRT
(67)	Methyl ethyl ketone (MEK) (78-93-3)	ANO
(68)	Methyl ethyl ketone peroxide (1338-23-4)	AO
(69)	Methyl ethyl ketoxime (96-29-7)	I
(70)	Methyl formate (107-31-3)	AO
(71)	5-Methyl-3-heptanone (see Ethyl amyl ketone)	
(72)	*Methyl hydrazine-skin (60-34-4)	ANO
(73)	*Methyl iodide-skin (74-88-4)	ANO
(74)	Methyl isoamyl ketone (110-12-3)	AN
(75)	Methyl isobutyl carbinol-skin (108-11-2)	AO
(76)	Methyl isobutyl ketone (Hexone) (108-10-1)	ANO
(77)	Methyl isocyanate-skin (624-83-9)	AO
(78)	Methyl isopropyl ketone (563-80-4)	A
(79)	*Methyl methanesulfonate	R
(80)	Methyl mercaptan (74-93-1)	ANO
(81)	Methyl methacrylate (80-62-6)	AO
(82)	2-methyl-1-nitroanthraquinone (uncertain purity)	R
(83)	*N-Methyl-N'-nitro-N-nitrosoguanidine (MNNG)	R
(84)	*N-Methyl-N-nitrosourea	R
(85)	*N-Methyl-N-nitrosourethane	R
(86)	N-methyl-2-Pyrrolidone	I
(87)	Methyl parathion-skin (298-00-0)	AN
(88)	Methyl n-propyl ketone (107-87-9)	ANO
(89)	Methyl silicate (681-84-5)	A
(90)	$\alpha$ -Methyl styrene (98-83-9)	AO
(91)	Methyl tert-Butyl ether	I
(92)	*Methylthiouracil	R
(93)	Methyltrichlorosilane	I
(94)	Metribuzin (21087-64-9)	A
(95)	*Metronidazole (443-48-1)	RT
(96)	Mevinphos (PHOSDRIN®)-skin (7786-34-7)	A
(97)	Mica, dust (12001-25-2)	AO
(98)	*Michler's Ketone (90-94-8)	T
(99)	*Mineral oils (lubricant, base oils, and derived products) (general: 8002-05-9) (untreated vacuum distillates; acid-treated oils; aromatic oils; mildly solvent-refined oils; mildly hydro-treated oils; used gasoline-engine oil; and mineral oils used in mulespinning, metal machining, and jute processing)	AORT
(100)	Mineral wool fiber	A

(101)	*Mirex (2385-85-5)	RT
(102)	*Mitomycin C	R
(103)	Molybdenum (7439-98-7), as Mo, soluble/insoluble compounds	AO
(104)	Monochloroacetic acid-skin (79-11-8)	I
(105)	Monochlorobenzene (see Chlorobenzene)	
(106)	*Monocrotaline	R
(107)	Monocrotophos (Azodrin) (6923-22-4)	A
(108)	Monomethyl aniline-skin (100-61-8)	AO
(109)	Monomethyl hydrazine-skin (60-34-4)	O
(110)	Morpholine-skin (110-91-8)	AO
(111)	*5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)amino]-2-oxazolidinone	R
(112)	*Mustard gas (505-60-2)	RT

M. Hazardous substances beginning with the letter N:

(1)	Nafenopin	R
(2)	Naled (300-76-5) (Dibrom)	A
(3)	Naphtha (Coal Tar) (MX8030-31-7)	O
(4)	Naphtha (VM&P Naphtha)	A
(5)	Naphtha (Rubber Solvent)	AO
(6)	Naphthalene (91-20-3)	AO
(7)	Naphthalene diisocyanate (25551-28-4)	N
(8)	* $\alpha$ -Naphthylamine (91-59-8)	NO
(9)	*2-Naphthylamine (91-59-8)	ANRT
(10)	$\alpha$ -Naphthylthiourea (see ANTU)	
(11)	Neon (7440-01-09)	A
(12)	Niax® Catalyst ESN	N
(13)	*Nickel (7440-02-0), elemental, soluble, and insoluble compounds, as Ni	ANORT
(14)	Nicotine-skin (54-11-5)	AO
(15)	*Niridazole	R
(16)	Nitrapyrin (1929-82-4)	A
(17)	Nitric acid (7697-37-2)	ANO
(18)	Nitric oxide (10102-43-9)	AO
(19)	*Nitrilotriacetic acid (139-13-9)	T
(20)	*5-Nitroacenaphthene	R
(21)	p-Nitroaniline-skin (100-01-6)	AO
(22)	*5-Nitro-o-anisidine (99-59-2)	T
(23)	*4-Nitrobiphenyl (see *4-Nitrodiphenyl)	
(24)	Nitrobenzene-skin (98-95-3)	AO

(25)	p-Nitrochlorobenzene (100-00-5)	AO
(26)	Nitrochloromethane (see Chloropicrin)	
(27)	*4-Nitrodiphenyl (92-93-3)	ANO
(28)	Nitroethane (79-24-3)	AO
(29)	*Nitrofen (1836-75-5)	RT
(30)	*1-[(5-Nitrofurfurylidene)amino]-2-imidazolidinone	R
(31)	*N-[4-(5-Nitro-2-furyl)-2-thiazolyl]acetamide	R
(32)	Nitrogen (7727-37-9)	A
(33)	Nitrogen dioxide (10102-44-0)	ANO
(34)	*Nitrogen mustard (51-75-2)	RT
(35)	*Nitrogen mustard hydrochloride (55-86-7)	T
(36)	Nitrogen trifluoride (7783-54-2)	AO
(37)	Nitroglycerin (NG)-skin (55-63-0)	ANO
(38)	Nitromethane (75-52-5)	AO
(39)	*2-Nitronaphthalene (581-89-5)	N
(40)	*5-Nitro-o-anisidine (99-59-2)	T
(41)	1-Nitropropane (108-03-2)	AO
(42)	*2-Nitropropane (79-46-9)	ANORT
(43)	*N-Nitrosodi-n-butylamine (924-16-3)	RT
(44)	*N-Nitrosodiethanolamine (1116-54-7)	RT
(45)	*N-Nitrosodiethylamine (55-18-5)	RT
(46)	*N-Nitrosodiemethylamine (62-75-9)	AONRT
(47)	*p-Nitrosodiphenylamine (156-10-5)	T
(48)	*N-Nitrosodi-n-propylamine (621-64-7)	RT
(49)	*N-Nitroso-N-ethylurea (759-73-9)	T
(50)	*N-Nitroso-N-methylurea (684-93-5)	T
(51)	*3-(N-Nitrosomethylamino)propionitrile	R
(52)	*4-(N-Nitrosomethylamino)-1-(3-pyridyl)-1-butanone (NNK)	R
(53)	*N-Nitrosomethylethylamine	R
(54)	*N-Nitrosomethylvinylamine (4549-40-0)	RT
(55)	*N-Nitrosomorpholine (59-89-2)	RT
(56)	*N-Nitrosornicotine (1654-55-8)	RT
(57)	*N-Nitrosopiperidine (100-75-4)	RT
(58)	*N-Nitrosopyrrolidine (930-55-2)	RT
(59)	*N-Nitrososarcosine (13256-22-9)	RT
(60)	Nitrotoluene-skin (99-08-1)	AO
(61)	Nitrotrichloromethane (see Chloropicrin)	
(62)	Nitrous oxide (10024-97-2)	AN
(63)	Nonane (111-84-2)	A

- |      |                           |    |
|------|---------------------------|----|
| (64) | *Norethisterone (68-22-4) | RT |
| (65) | Nuisance Dust (see Dust)  |    |

N. Hazardous substances beginning with the letter O:

- |      |  |     |
|------|--|-----|
| (1)  | Octachloronaphthalene-skin (2234-13-1) | AO  |
| (2)  | Octane (111-65-9)                      | ANO |
| (3)  | 1-Octanol (111-87-5)                   | I   |
| (4)  | *Oestradiol-17B (50-28-2)              | R   |
| (5)  | *Oestrone (53-16-7)                    | R   |
| (6)  | *Oil mist, mineral (8012-95-1)         | A   |
| (7)  | Organo (alkyl) mercury                 | O   |
| (8)  | Organotin compounds                    | NO  |
| (9)  | Osmium tetroxide (20816-12-0), as Os   | AO  |
| (10) | Oxalic acid (144-62-7)                 | AO  |
| (11) | *4,4'-Oxydianiline (101-80-4)          | T   |
| (12) | Oxygen difluoride (7783-41-7)          | AO  |
| (13) | *Oxymetholone (434-07-1)               | RT  |
| (14) | Ozone (10028-15-6)                     | AO  |

O. Hazardous substances beginning with the letter P:

- |      |  |     |
|------|--|-----|
| (1)  | *PCB (see Chlorodiphenyl)  |     |
| (2)  | *Panfuran S (containing dihydroxymethylfuratrizine)                                | R   |
| (3)  | Paraffin wax fume (8002-74-2)  | A   |
| (4)  | Paraquat - respirable sizes (4685-14-7)  | A   |
| (5)  | Paraquat-skin (1910-42-5)  | AO  |
| (6)  | Parathion-skin (56-38-2)   | ANO |
| (7)  | Particulate polycyclic aromatic hydrocarbons (PPAH) (see Coal tar pitch volatiles) |     |
| (8)  | Pentaborane (19624-22-7)   | AO  |
| (9)  | Pentachloroethane (76-01-7)  | N   |
| (10) | Pentachloronaphthalene (1321-64-8)   | AO  |
| (11) | Pentachloronitrobenzene (82-68-8)  | A   |
| (12) | Pentachlorophenol (PCP) (87-86-5) (see also Chlorophenols)                         | AO  |
| (13) | Pentaerythritol (115-77-5)   | A   |
| (14) | Pentaerythritol triacrylate (3524-68-3)  | I   |
| (15) | Pentane (109-66-0)   | ANO |
| (16) | 2-Pentanone (see Methyl propyl ketone)   |     |
| (17) | *Perchloroethylene (Tetrachloroethylene)-skin (127-18-4)                           | ANO |
| (18) | Perchloromethyl mercaptan (594-42-3)   | AO  |
| (19) | Perchloryl fluoride (7616-94-6)  | AO  |

(20)	Perfluoroisobutylene (382-21-8)	A
(21)	Perlite	A
(22)	Petroleum Distillates (Naphtha) (8030-30-6)	O
(23)	*Phenacetin (62-44-2)	RT
(24)	Phenacyl chloride (see $\alpha$ -Chloroacetophenone)	
(25)	*Phenazopyridine (94-78-0)	RT
(26)	*Phenazopyridine hydrochloride (136-40-3)	RT
(27)	*Phenobarbitol	R
(28)	Phenol-skin (108-95-2)	ANO
(29)	Phenothiazine-skin (92-84-2)	A
(30)	*Phenoxyacetic acid herbicides	R
(31)	*Phenoxybenzamine hydrochloride (63-92-3)	RT
(32)	*N-Phenyl-beta-naphthylamine (135-88-6)	AN
(33)	m-Phenylenediamine (108-45-2)	A
(34)	*o-Phenylenediamine (95-54-5)	A
(35)	p-Phenylene diamine-skin (106-50-3)	AO
(36)	Phenyl ether (101-84-8)	AO
(37)	Phenyl ether-biphenyl mixture, vapor	O
(38)	Phenylethylene (see Styrene, monomer)	
(39)	*Phenyl glycidyl ether (PGE) (122-60-1)	ANO
(40)	*Phenylhydrazine-skin (100-63-0)	ANO
(41)	Phenyl mercaptan (108-98-5)	A
(42)	Phenylphosphine (638-21-1)	A
(43)	*Phenytol (and sodium salts of) (57-41-0)	RT
(44)	Phorate (Thimet)-skin (298-02-2)	A
(45)	Phosdrin (Mevinphos)-skin (7786-34-7)	AO
(46)	Phosgene (Carbonyl chloride) (75-44-5)	ANO
(47)	Phosphamidon (13171-21-6)	O
(48)	Phosphine (7803-51-2)	AO
(49)	Phosphoric acid (7664-38-2)	AO
(50)	Phosphorus (yellow) (7723-14-0)	AO
(51)	Phosphorus oxychloride (10025-87-3)	A
(52)	Phosphorus pentachloride (10026-13-8)	AO
(53)	Phosphorus pentasulfide (1314-80-3)	AO
(54)	Phosphorus trichloride (7719-12-2)	AO
(55)	Phthalic anhydride (85-44-9)	AO
(56)	m-Phthalodinitrile (626-17-5)	A
(57)	Picloram (Tordon) (1918-02-1)	A
(58)	Picolines-skin	I
(59)	Picric acid (2,4,6-Trinitrophenol)-skin (88-89-1)	AO

(60)	Pindone (2-Pivaloyl-a,3-indandione) (83-26-1)	A
(61)	Piperazine dihydrochloride (142-64-3)	A
(62)	Piperidine (110-89-4)	I
(63)	Pival <sup>®</sup> (Pindone) (83-26-1)	AO
(64)	2-Pivalyl-1,3-indandione (see Pindone)	
(65)	Plaster of Paris (see Calcium sulfate)	
(66)	Platinum (Metal) (7440-06-4)	A
(67)	Platinum (7440-06-04), soluble salts, as Pt	AO
(68)	*Polybrominated biphenyls (36355-01-8)	RT
(69)	*Polychlorinated biphenyls (see also chlorodiphenyl) (1336-36-3)	NRT
(70)	*Polychlorobiphenyls (PCBs) (see Chlorodiphenyls)	
(71)	*Polycyclic aromatic hydrocarbons, 15 listings	T
(72)	Polyethylene glycols (25322-68-3)	I
(73)	Polypropylene glycols (25322-69-4)	I
(74)	Polytetrafluoroethylene (TEFLON) decomposition products	A
(75)	*Ponceau MX	R
(76)	*Ponceau 3R	R
(77)	Portland cement (65997-15-1)	A
(78)	Potassium bromate (7758-01-2)	AIR
(79)	Potassium hydroxide (1310-58-3)	A
(80)	Precipitated silica (see Silica - Amorphous)	
(81)	*Procarbazine (671-16-9)	RT
(82)	*Procarbazine hydrochloride (366-70-1)	RT
(83)	*Progesterone (57-83-0)	RT
(84)	*Progestins	R
(85)	Propane (74-98-6)	AO
(86)	*1,3-Propane sultone (1120-71-4)	ART
(87)	1-Propanethiol (see Propyl mercaptan)	
(88)	Propargyl alcohol-skin (107-19-7)	A
(89)	*β-Propiolactone (57-57-8)	ANORT
(90)	Propionic acid (79-09-4)	A
(91)	Propoxur (see BAYGON <sup>®</sup> )	
(92)	n-Propyl acetate (109-60-4)	AO
(93)	Propyl alcohol-skin (71-23-8)	AO
(94)	n-Propyl mercaptan (107-03-9)	NO
(95)	n-Propyl nitrate (627-13-4)	AO
(96)	Propylene (115-07-1)	A
(97)	Propylene dichloride (1,2-Dichloro propane) (78-87-5)	AO
(98)	Propylene glycol (57-556)	I
(99)	Propylene glycol dinitrate (PGDN)-skin (6423-43-4)	A

(100)	Propylene glycol monomethyl ether (107-98-2)	A
(101)	*Propylene imine-skin (75-55-8)	AO
(102)	*Propylene oxide (75-56-9)	AORT
(103)	n-Propyl nitrate (627-13-4)	A
(104)	*Propylthiouracil (51-52-5)	RT
(105)	Propyne (74-99-7)	AO
(106)	Pseudocumene (see 1,2,4-Trimethylbenzene)	
(107)	Pyrethrum (8003-34-7)	AO
(108)	Pyridine (110-86-1)	AO
(109)	Pyrocatechol (Catechol) (120-80-9)	A

P. Hazardous substances beginning with the letter Q:

(1)	Quartz (see Silica - Crystalline)	
(2)	Quinoline-skin (91-22-5)	I
(3)	Quinone (106-51-4)	AO

Q. Hazardous substances beginning with the letter R:

(1)	RDX (Cyclonite)-skin (121-82-4)	A
(2)	*Reserpine (50-55-5)	T
(3)	Resorcinol (108-46-3)	A
(4)	Rhodium (7440-16-6)	AO
(5)	Ronnel (299-84-3)	AO
(6)	Rosin core solder decomposition products, as resin acids-colophony (8050-09-7)	A
(7)	Rosin core solder pyrolysis products, as Formaldehyde	A
(8)	Rotenone (Commercial) (83-79-4)	AO
(9)	Rouge	A
(10)	Rubber solvent (Naphtha) (see Naphtha - Rubber Solvent)	

R. Hazardous substances beginning with the letter S:

(1)	*Saccharin (81-07-2)	RT
(2)	*Safrole (94-59-7)	RT
(3)	Selenium compounds (7782-49-2), as Se	AO
(4)	Selenium hexafluoride (7783-79-1), as Se	AO
(5)	*Selenium sulfide (7446-34-6)	T
(6)	*Sequential oral contraceptives (compound(s) responsible for the probable carcinogenic effect in humans cannot be specified)	R
(7)	Sesone (136-78-7)	A
(8)	Sevin (63-25-2)	AO
(9)	*Shale oils (68308-34-9)	R

(10)	Silane (see Silicon tetrahydride)	
(11)	*Silica (SiO <sub>2</sub> ) (7631-86-9)	ANOR
(12)	Silica - Amorphous	
	- Diatomaceous earth (uncalcined) (61790-53-2)	AR
	- Fume (69012-64-2)	A
	- Fused (60676-86-0)	A
	- Precipitated silica (112926-00-8)	A
	- Silica gel (112926-00-8)	A
(13)	*Silica - Crystalline	
	Cristobalite (14464-46-1)	A
	Quartz (14808-60-7)	A
	Silica, fused (60676-86-0)	A
	Tridymite (15468-32-3)	A
	Tripoli (1317-95-9)	A
(14)	Silicon (7440-21-3)	A
(15)	Silicon carbide (409-21-2)	A
(16)	Silicon tetrahydride (7803-62-5)	A
(17)	Silver (7440-22-4), metal and soluble compounds, as Ag	AO
(18)	Soapstone, dust	AO
(19)	Sodium azide (26628-22-8)	A
(20)	Sodium bisulfite (7631-90-5)	A
(21)	Sodium 2,4-dichlorophenoxyethyl sulfate (CRAG) (136-78-7)	AO
(22)	Sodium fluoroacetate-skin (62-74-8)	AO
(23)	Sodium hydroxide (1310-73-2)	ANO
(24)	Sodium hypochlorite (7681-52-9)	I
(25)	Sodium metabisulfite (7681-57-4)	A
(26)	*Sodium ortho-phenylphenate	R
(27)	Sodium perfluoroacetate-skin (62-74-8)	A
(28)	*Soots	RT
(29)	Starch (9005-25-8)	A
(30)	Stearates	A
(31)	*Sterigmatocystin	R
(32)	Stibine (7803-52-3)	AO
(33)	Stoddard solvent (8052-41-3)	ANO
(34)	*Streptozotocin (18883-66-4)	RT
(35)	*Strontium chromate, as Cr (7789-06-2)	A
(36)	Strychnine (57-24-9)	AO
(37)	*Styrene, monomer-skin (100-42-5)	ANO

(38)	*Styrene, oxide	R
(39)	Subtilisins (1395-21-7) (Proteolytic enzymes as 100% pure crystalline enzyme)	A
(40)	Succinonitrile (110-61-2)	N
(41)	Sucrose (57-50-1)	A
(42)	*Sulfallate (95-06-7)	T
(43)	Sulfotep-skin (3689-24-5)	A
(44)	Sulfur dioxide (7446-09-5)	ANO
(45)	Sulfur hexafluoride (2551-62-4)	AO
(46)	Sulfuric acid (7664-93-9)	ANO
(47)	Sulfur monochloride (10025-67-9)	AO
(48)	Sulfur pentafluoride (Dimer) (5714-22-7)	AO
(49)	Sulfur tetrafluoride (7783-60-0)	A
(50)	Sulfuryl fluoride (2699-79-8)	AO
(51)	*Sulfallate (95-06-7)	RT
(52)	Sulprofos (35400-43-2)	A
(53)	Systox-skin (8065-48-3)	AO

S. Hazardous substances beginning with the letter T:

(1)	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid) (93-76-5)	AO
(2)	Talc (Nonasbestiform, resp. and fibrous) (14807-96-6)	AO
(3)	*Talc (containing asbestiform fibers)	AR
(4)	Tantalum, metal and oxide (7440-25-7)	AO
(5)	TEDP (Tetraethyldithionopyrophosphate)-skin (3689-24-5)	AO
(6)	Teflon decomposition products	A
(7)	Tellurium and compounds (13494-80-9), as Te	AO
(8)	Tellurium hexafluoride (7783-80-4), as Te	AO
(9)	Temephos (3383-96-8)	A
(10)	TEPP-skin (107-49-3)	AO
(11)	Terephthalic acid (100-21-0)	A
(12)	Terphenyls (26140-60-3)	A
(13)	*2,3,7,8-Tetrachlorodibenzo-para-dioxin (TCDD) (1746-01-6)	RT
(14)	1,1,1,2-Tetrachloro-2,2-difluoroethane (Fluorocarbon 112a) (76-11-9)	AO
(15)	1,1,2,2-Tetrachloro-1,2-difluoroethane (Fluorocarbon 112) (76-12-0)	AO
(16)	*1,1,2,2-Tetrachloroethane-skin (79-34-5)	ANO
(17)	*Tetrachloroethylene (see Perchloroethylene)	
(18)	Tetrachloromethane (see Carbon tetrachloride)	
(19)	Tetrachloronaphthalene-skin (1335-88-2)	AO
(20)	Tetraethyl lead, as Pb-skin (78-00-2)	AO

(21)	Tetraethylene glycol diacrylate (17831-71-9)	I
(22)	1,1,1,2-Tetrafluoroethane	I
(23)	Tetrahydrofuran (109-99-9)	AO
(24)	Tetramethyl lead, as Pb-skin (75-74-1)	AO
(25)	Tetramethyl succinonitrile-skin (3333-52-6)	ANO
(26)	Tetranitromethane (509-14-8)	AO
(27)	Tetrasodium pyrophosphate (7722-88-5)	A
(28)	Tetryl (2,4,6-Trinitrophenylmethyl nitramine)-skin (479-45-8)	AO
(29)	Thallium - soluble compounds, as TI-skin (7440-28-0)	AO
(30)	*Thioacetamide (62-55-5)	T
(31)	4,4'-Thiobis (6-tert butyl-m-cresol) (96-69-5)	A
(32)	*4,4'-Thiodianiline	R
(33)	Thioglycolic acid (68-11-1)	A
(34)	Thiols (n-alkane monothiols)	N
(35)	Thionyl chloride (7719-09-7)	A
(36)	*Thiourea (62-56-6)	RT
(37)	Thiram (137-26-8)	AO
(38)	*Thorium dioxide (1314-20-1)	T
(39)	Tin (Metal) (7440-31-5)	AO
(40)	Tin, organic compounds, as Sn-skin	A
(41)	Tin oxide, and inorganic compounds, except SnH <sub>4</sub> , as Sn	A
(42)	Titanium dioxide (13463-67-7)	A
(43)	*o-Tolidine-skin (119-93-7)	AN
(44)	*o-Tolidine-based dyes	N
(45)	Toluene-skin (108-88-3)	ANO
(46)	Toluene 2-4-diamine-skin (95-80-7)	I
(47)	*Toluene diisocyanate (584-84-9)	T
(48)	Toluene-2,4-diisocyanate (TDI) (584-84-9)	ANOR
(49)	p-Toluene sulfonyl chloride (98-59-9)	I
(50)	m-Toluidine-skin (108-44-1)	A
(51)	*o-Toluidine-skin (95-53-4)	ANORT
(52)	*o-Toluidine hydrochloride (636-21-5)	T
(53)	*p-Toluidine-skin (106-49-0)	A
(54)	Toxaphene (see Chlorinated camphene)	
(55)	Tremolite (see Talc, fibrous)	
(56)	*Treosulphan (299-75-2)	R
(57)	Tributyl phosphate (126-73-8)	AO
(58)	Trichloroacetic acid (76-03-9)	A
(59)	1,2,4-Trichlorobenzene (120-82-1)	A
(60)	1,1,1-Trichloroethane (see Methyl chloroform)	

(61)	*1,1,2-Trichloroethane-skin (79-00-5)	ANO
(62)	*Trichloroethylene (79-01-6)	ANO
(63)	Trichlorofluoromethane (Fluorocarbon 11) (75-69-4)	A
(64)	Trichloromethane (see Chloroform)	
(65)	Trichloronaphthalene (Halowax) (1321-65-9)	AO
(66)	Trichloronitromethane (see Chloropicrin)	
(67)	*2,4,6-Trichlorophenol (88-06-2)	RT
(68)	1,2,3,-Trichloropropane (96-18-4)	AO
(69)	1,1,2-Trichloro-1,2,2-trifluoroethane (Fluorocarbon 113) (76-13-1)	AO
(70)	Tricyclohexyltin hydroxide (Cyhexatin) (13121-70-5)	A
(71)	Tridymite (see Silica - Crystalline)	
(72)	Triethanolamine (102-71-6)	A
(73)	Triethylamine (121-44-8)	AO
(74)	Triethylene glycol diacrylate (1680-21-3)	I
(75)	Trifluorobromomethane (Fluorocarbon 13B1) (75-63-8)	AO
(76)	Trifluoromonobromomethane (Fluorocarbon 13B1, see Trifluorobromomethane)	
(77)	Trimellitic anhydride (552-30-7)	AN
(78)	Trimethylamine (75-50-5)	AI
(79)	Trimethylbenzene (25551-13-7)	A
(80)	Trimethyl phosphite (121-45-9)	A
(81)	Trimethylolpropane triacrylate (15625-89-5)	I
(82)	Trimethylolpropane trimethacrylate (3290-92-4)	I
(83)	2,4,6-Trinitrophenol (see Picric acid)	
(84)	2,4,6-Trinitrophenylmethyl nitramine (see Tetryl)	
(85)	*2,4,6-Trinitrotoluene (TNT)-skin (118-96-7)	AO
(86)	Triorthocresyl phosphate (TOCP)-skin (78-30-8)	AO
(87)	Triphenyl amine (603-34-9)	A
(88)	Triphenyl phosphate (115-86-6)	AO
(89)	Tripoli (1317-95-9)	A
(90)	Trisodium phosphate (7601-54-9)	I
(91)	*Tris(aziridinyl)-para-benzoquinone (Triaziquone) (68-76-8)	R
(92)	*Tris(1-aziridinyl)phosphine sulfide (Thiotepa) (52-24-4)	RT
(93)	*Tris(2,3-dibromopropyl)phosphate (126-72-7)	T
(94)	*Trp-P-1 (and its acetate) (62450-06-0)	R
	(3-Amino-1,4-dimethyl-5H-pyrido[4,3-b] indole)	
(95)	*Trp-P-2 (and its acetate) (62450-07-1)	R
	(3-Amino-1-methyl-5H-pyrido[4,3-b] indole)	
(96)	*Trypan blue	R

- (97) Tungsten and compounds (7440-33-7), as W AN  
 (98) Turpentine (8006-64-2) AO

T. Hazardous substances beginning with the letter U:

- (1) \*Uracil mustard (66-75-1) R  
 (2) Uranium, natural compounds, as U, soluble and insoluble (7440-61-1) AO  
 (3) Urea I  
 (4) \*Urethane (ethyl carbonate) (51-79-6) RT

U. Hazardous substances beginning with the letter V:

- (1) Valeraldehyde (110-62-3) A  
 (2) Vanadium, as V<sub>2</sub>O<sub>5</sub>, dust and fume (1314-62-1) ANO  
 (3) Vegetable oil mists A  
 (4) \*Vinyl acetate (108-05-4) AN  
 (5) Vinyl benzene (see Styrene)  
 (6) \*Vinyl bromide (593-60-2) A  
 (7) \*Vinyl chloride (75-01-4) ANORT  
 (8) Vinyl cyanide (see Acrylonitrile)  
 (9) \*4-Vinyl cyclohexene (100-40-3) AI  
 (10) \*Vinyl cyclohexene dioxide-skin (106-87-6) A  
 (11) \*Vinyl halides N  
 (12) \*Vinylidene chloride (1,1-Dichloroethylene) (75-35-4) A  
 (13) Vinyl toluene (25013-15-4) AO  
 (14) VM&P Naphtha (8030-30-6) A

V. Hazardous substances beginning with the letter W:

- (1) Warfarin (81-81-2) AO  
 (2) Waste anesthetic gases and vapors N  
 (3) Welding fumes A  
 (4) \*Wood dust; all soft and hard woods AO

W. Hazardous substances beginning with the letter X:

- (1) Xylene (o-m-p-isomers) (1330-20-7) ANO  
 (2) m-Xylene  $\alpha,\alpha'$ -diamine (MXDA, meta-meta-xylenediamine) (1477-55-0) A  
 (3) \*Xylidine (mixed isomers)-skin (1300-73-8) AO

X. Hazardous substances beginning with the letter Y:

- Yttrium, metal and compounds, as Y (7440-65-5) A

## Y. Hazardous substances beginning with the letter Z:

- |     |   |     |
|-----|---|-----|
| (1) | Zinc chloride fume (7646-85-7)                              | AO  |
| (2) | *Zinc chromates (13530-65-9; 11103-86-9; 37300-23-5), as Cr | A   |
| (3) | Zinc oxide, fume and dust (1314-13-2)                       | ANO |
| (4) | Zinc stearate (557-05-1)                                    | A   |
| (5) | Zirconium compounds (7440-67-2), as Zr                      | AO  |

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