HAZARDOUS WASTE COMPATIBILITY CHART

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A METHOD FOR DETERMINING THE COMPATIBILITY OF HAZARDOUS WASTES

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CAUTION!!

This chart is intended as an indication of some of the hazards that can be expected on mixing chemical wastes. Because of the differing activities of the thousands of compounds that may be encountered, it is not possible to make any chart definitive and all inclusive. It cannot be assumed to ensure compatibility of wastes because wastes are not classified as hazardous on the chart, nor do any blanks necessarily mean that the mixture cannot result in a hazard occurring. Detailed instructions as to hazards involved in handling and disposing of any given waste should be obtained from the originator of the waste.

Reactivity Code	Consequences
H	Heat generation
F	Fire
G	Innocuous and non-flammable gas generation
GT	Toxic gas generation
GF	Flammable gas generation
E	Explosion
P	Violent polymerization
S	Solubilization of toxic substances
U	May be hazardous but unknown

Example:

H F GT	Heat generation, fire, and toxic gas generation

NO	REACTIVITY GROUP NAME	1	2	3	4	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	101	102	103	104	105	106	107
1	Acids, Mineral, Non-oxidizing	1																																								
2	Acids, Mineral, Oxidizing		2																																							
3	Acids, Organic		G H	3																																						
4	Alcohols and Glycols	H	H F	H P	4																																					
5	Aldehydes	H P	H F	H P		5																																				
6	Amides	H	H GT				6																																			
7	Amines, Aliphatic and Aromatic	H	H GT	H		H		7																																		
8	Azo Compounds, Diazo Compounds and Hydrazines	H G	H GT	H G	H G	H			8																																	
9	Carbamates	H G	H GT						G H	9																																
10	Caustics	H	H	H		H				H G	10																															
11	Cyanides	GT GF	GT GF	GT GF					G			11																														
12	Dithiocarbamates	H GF F	H GF F	H GF GT		GF GT		U	H G				12																													
13	Esters	H	H F						H G		H			13																												
14	Ethers	H	H F												14																											
15	Fluorides, Inorganic	GT	GT	GT												15																										
16	Hydrocarbons, Aromatic		H F														16																									
17	Halogenated Organics	H GT	H F GT					H GT	H G		H GF	H						17																								
18	Isocyanates	H G	H F GT	H G	H P			H P	H G		H P G	H G	U						18																							
19	Ketones	H	H F						H G		H	H								19																						
20	Mercaptans and Other Organic Sulfides	GT GF	H F GT						H G									H	H	H	20																					
21	Metals, Alkali and Alkaline Earth, Elemental	GF H F	GF H F	GF H F	GF H F	GF H F	GF H	GF H	GF H	GF H	GF H	GF H	GF GT H	GF H				H E	GF H	GF H	GF H	21																				
22	Metals, Other Elemental & Alloys as Powders, Vapors, or Sponges	GF H F	GF H F	G F					H F GT	U	GF H							H E	GF H		H GF F		22																			
23	Metals, Other Elemental & Alloys as Sheets, Rods, Drops, etc.	GF H F	GF H F						H F G									H F						23																		
24	Metals and Metal Compounds, Toxic	S	S	S			S	S			S														24																	
25	Nitrides	GF HF	H F E	H GF E	GF H	GF H			U	H G	U	GF H	GF H	GF H				GF H	U	GF H	GF H	E				25																
26	Nitriles	H GT GF	H F GT	H							U											H P			S	GF H	26															
27	Nitro Compounds, Organic		H F GT			H					H E											H GF E				H GF E		27														
28	Hydrocarbons, Aliphatic, Unsaturated	H	H F			H																	H E						28													
29	Hydrocarbons, Aliphatic, Saturated		H F																											29												
30	Peroxides and Hydroperoxides, Organic	H G	H E		H F	H G		H GT	H F E	H F GT		H E GT	H F GT					H E	H	E	H F GT	H E	H G		H G	H GF E	H P GT		H P		30											
31	Phenols and Cresols	H	H F						H G										H P			GF H				GF H					H	31										
32	Organophosphates, Phosphothioates, Phosphodithioates	H GT	H GT						U		H E											H									U		32									
33	Sulfides, Inorganic	GT GF	HF GT	GT		H			E										H												H GT			33								
34	Epoxides	H P	H P	H P	H P	U		H P	H P		H P	H P	U								H P	H P	H P		H P	H P					H P	H P	U	H P	34							
101	Combustible and Flammable Materials, Miscellaneous	H G	H F GT																			H G F				H GF F					H F GT					101						
102	Explosives	H E	H E	H E					H E		H E			H E								H E	H E	H E	E	E					H E	H E		H E	H E	H E	102					
103	Polymerizable Compounds	P H	P H	P H					P H		P H	P H	U						P H			P H	P H	P H	P H	P H					P H	P H		P H			H E	103				
104	Oxidizing Agents, Strong	H GT		H GT	H F	H F	H F GT	H F GT	H E	H F GT		H E GT	H F GT	H F	H F		H F	H GT	H F GT	H F	H F GT	H F E	H F E	H F		H F E	H F GT	H E	H F	H F	H F G	H F GT	H F G	H F G	H E	H F GT	104				
105	Reducing Agents, Strong	H GF	H F GT	H GT	H GF F	GF H E	GF H	H GF	H G			H GT	H				H	H E	GF H	GF H	GF H						H GF	H E			H E	GF H	GF H	H E	H P GF	H F E	105				
106	Water and Mixtures Containing Water	H	H						H G										H G			GF H	GF H		S	GF H													GF GT	106		
107	Water Reactive Substances	← EXTREMELY REACTIVE!																																								107

DO NOT MIX WITH ANY CHEMICAL OR WASTE MATERIAL!

EXTREMELY REACTIVE! →

HAZARDOUS WASTES COMPATIBILITY CHART

INTRODUCTION

THE CHART IS THE SINGLE MOST IMPORTANT PART OF THIS REPORT. IT IS A QUICK AND READY REFERENCE FOR DETERMINING THE COMPATIBILITY REACTIONS OF MOST BINARY COMBINATIONS OF HAZARDOUS WASTES.

DESCRIPTION OF THE CHART

The 41 reactivity group classifications of hazardous wastes appear on the RGN chart.

The first column of the chart lists the reactivity groups by **Reactivity Group Numbers (RGN)**. The first 34 RGN which are based on chemical classes or molecular functional groups are listed consecutively from 1 to 34. The last 7 RGN which are based on general chemical reactivities are listed consecutively from 101 to 107. The second column lists the corresponding reactivity group names. The first 34 group names are each followed by a number of reaction squares equal to their respective RGN. In other words, RGN 1 is followed by 1 square, RGN 2 by 2 squares, etc. The group names designated by RGN 101 to 107 are followed by 34, 36, 37, 38, 39, 40 and 41 squares, respectively. The squares form rows as well as columns of squares on the chart. A terminal square of a row represents a binary combination of one reactive group with itself and is labeled with its RGN. The terminal squares serve as headings for the columns of squares and as a whole appear as a diagonal row of squares on the chart. An additional bottom row of squares is correspondingly labeled as the diagonal row of squares. The RGN on the first column of the chart and those on the diagonal and bottom rows of squares provide the reference coordinates for locating the potential hazardous reaction consequences of any binary combinations of the wastes reactivity groups.

The rest of the squares on the chart are either blank or filled in with Reaction Codes (RC). When a square is blank, the wastes in the binary combination represented by that square are compatible. Conversely, any RC on the squares indicate potential incompatible reactions that can result from the combination of the wastes reactivity groups represented by the individual squares. The predicted reactions are based on the combinations of the most reactive chemicals in the respective reactivity groups. Where waste combinations are believed to be incompatible but no sufficient supporting data have been found in the literature, incompatible reactions are also noted and marked on the chart with RC or "U". The RC are identified in the legend on the upper right hand corner of the chart.

PROCEDURES FOR USING THE CHART

Step 1: For the binary combination of any reactivity groups, first find the Reactivity Group Number (RGN) of the first group on the first column of the chart.

Step 2: Find the RGN of the second group from the bottom squares of RGN.

Step 3: Find the intersecting reaction square for the two RGN.

Step 4: Note the Reaction Code(s) (RC) in the square.

Step 5: Refer to the legend on the chart or Section 5.4 for the explanation of the RC.

Step 6: When no RC is found on the reaction square, the two groups of wastes are compatible. When any RC are noted on the square, the wastes are incompatible when mixed or allowed to come in contact with one another.

EXPLANATION OF THE MULTIPLE REACTION CODES

For many binary combinations, multiple Reaction Codes (RC) are used to denote the reaction consequences. The order in which these letter codes appear in the squares corresponds to the order in which the consequences can occur. For example, in RC (HFE), the first letter denotes the initial or primary hazardous consequence of a binary reaction which in this case is HEAT generation. The second and third letters denote the resulting secondary consequences of the production of FIRE and EXPLOSION from the heat generated by the primary reaction. In some cases the third letter code refers to a resulting tertiary consequence such as the evolution of a toxic gas from a fire caused by excessive HEAT generation (HFGT). Where the codes GT/GF appear, the GASES evolved are TOXIC and FLAMMABLE such as hydrogen sulfide, hydrogen cyanide, or carbon disulfide. The relative positions of the letter codes to one another in this case bear no significance. The codes can also be written as GF/GT.

LIMITATIONS OF THE CHART

The potential reaction consequences predicted by the chart are based on pure chemical reactions only at ambient temperature and pressure. Concentration, synergistic, and antagonistic effects have been assumed not to influence the reactions. The reactions have not as yet been validated on actual wastes containing the chemicals.

APPENDIX I. LIST OF CHEMICAL SUBSTANCES

This appendix lists the chemical substances that may be found in hazardous waste streams. The list is not inclusive but represents the data compiled through a literature survey and examination of hazardous waste management practices.

The list consists of three columns. The first column lists the chemical or trade names in alphabetical order. The trade names are denoted by asterisks (*). The second column lists the synonyms or common names of the chemical substances when available. The third column lists the reactivity group numbers (RGN) assigned to the substances as derived in the list. A compound may be assigned more than one RGN.

This appendix is used to obtain the RGN of waste constituents when known specifically. The RGN is used to determine the compatibility of the combinations of wastes according to the compatibility method.

The chemical substances listed were compiled from several sources. The list of Hazardous Wastes and Hazardous Materials and List of Extremely Hazardous Wastes and Extremely Hazardous Materials in California's Industrial Waste Law of 1972 (Ref. 44) served as the starting reference. The primary sources of information consisted of published reports (Ref. 1, 7, 12, 13, 14, 32, and 52) identifying the hazardous chemical substances in industrial waste streams. Additional chemical entries were abstracted from the California Waste Haulers Record files (Ref. 10), California Extremely Hazardous Waste Disposal Permit files (Ref. 8), and the TRW Systems' report on recommended methods of reduction, neutralization, recovery, and disposal of hazardous wastes (Ref. 77).

REACTIVITY GROUP NUMBER	REACTIVITY GROUP NAME
1	Acids, Mineral, Non-Oxidizing
2	Acids, Mineral, Oxidizing
3	Acids, Organic
4	Alcohols and Gycols
5	Aldehydes
6	Amides
7	Amines, Aliphatic and Aromatic
8	Azo Compounds, Diazo Compounds and Hydrazines
9	Carbamates
10	Caustics
11	Cyanides
12	Dithiocarbamates
13	Esters
14	Ethers
15	Fluorides, Inorganic
16	Hydrocarbons, Aromatic
17	Halogenated Organics
18	Isocyanates
19	Ketones
20	Mercaptans and other Organic Sulfides
21	Metals, Alkali and Alkaline Earth, Elemental
22	Metals, other Elemental & Alloys as Powders, Vapors or Sponges
23	Metals, other elemental & Alloys as Sheets, Rods, Drops, Moldings, etc.
24	Metals and Metal Compounds Toxic
25	Nitrides
26	Nitriles
27	Nitro Compounds Organic
28	Hydrocarbons, Aliphatic, Unsaturated
29	Hydrocarbons, Aliphatic, Saturated
30	Peroxides and Hydroperoxides, Organic
31	Phenols and Cresols
32	Organoophosphates, Phosphothioates, Phosphodithioates
33	Sulfides, Inorganic
34	Exoxides
101	Combustible and Flammable Material, Miscellaneous
102	Explosives
103	Polymerizable Compounds
104	Oxidizing Agents, Strong
105	Reducing Agents, Strong
106	Water and Mixtures Containing Water
107	Water Reactive Substances

REACTIVITY CODE	CONSEQUENCES
H	HEAT GENERATION
F	FIRE
G	INNOCUOUS AND NON-FLAMMABLE GAS GENERATION
GT	TOXIC GAS GENERATION
GF	FLAMMABLE GAS GENERATION
E	EXPLOSION
P	VIOLENT POLYMERIZATION
S	SOLUBILIZATION OF TOXIC SUBSTANCES
U	MAY BE HAZARDOUS BUT UNKNOWN

EXAMPLE

H F GT — HEAT GENERATION, FIRE AND TOXIC GAS GENERATION

EXTREMELY REACTIVE! DO NOT MIX WITH ANY OTHER REACTIVITY GROUP! EXTREMELY REACTIVE!

HAZARDOUS WASTE COMPATIBILITY CHART

NAMES	SYNONYMS	RGN
Abate*		32
Acenaphthene		16
Acetamide		6
Acetaldehyde		5
Acetic acid		3
Acetic anhydride		107
Acetone	Dimethyl ketone	19
Acetone cyanohydrin	Hydroxyisobutyronitrile	4, 26
Acetonitrile	Methyl cyanide	26
Acetophenone		19
Acetoxybutane	Butyl acetate	13
Acetoxypentane	Amyl acetate	13
Acetyl acetone		19
Acetyl azide		102
Acetyl benzoyl peroxide		30
Acetyl bromide		17,107
Acetyl chloride		17,107
Acetylene		28
Acetyl nitrate		27,102
Acetyl peroxide		30
Acrolein	Aqualin	5, 103
Acrylic acid		3,103
Acrylonitrile		26,103
Adipic acid		3
Adiponitrile		26
Agallol	Methoxyethylmercuric chloride	24
Agaloaretan	Methoxymethylmercuric chloride	24
Aldicarb	Temik*	9,20
Aldrin		17
Alkyl aluminum chloride		107

Alkyl resins		101
Allene		28
Allyl alcohol	2-Propen-1-01	4
Allyl bromide	Bromopropene	17
Allyl chloride	Chloropropene	17
Allyl chlorocarbonate	Allyl chloroformate	13,17
Allyl chloroformate	Allyl chlorocarbonate	13, 17
Allyl trichlorosilane		107
Aluminum		22, 23
Alluminum aminoborohydride		107
Aluminum borohydride		105,107
Aluminum bromide		107
Aluminum carbide		105
Aluminum chloride		107
Aluminum diethyl monochloride	Diethylaluminum chloride	105,107
Aluminum fluoride		15, 107
Aluminum hydride		105
Aluminum hypophosphide		107
Aluminum phosphide		107
Aluminum tetraazidoborate		8
Aminobenzene	Aniline	7
Aminobutane	Butylamine	7
Aminochlorotoluene	Chlorotoluidine	7, 17
Aminodiphenyl		7
Aminoethane	Ethylamine	7
Aminoethanol		4, 7
Aminoethanolamine		7
Aminohexane	Hexylamine	7
Aminomethane	Methylamine	7
Aminopentane	Amylamine	7
Aminophenol		7, 31
Aminopropane	Isopropyl amine	7
Amino propionitrile		7, 26
Aminothiazole		7, 8
Aminotoluene	Toluidine	7
Ammonia		10

Ammonium arsenate		24
Ammonium azide		102
Ammonium bifluoride		15
Ammonium chlorate		102,104
Ammonium dichromate		24,102
Ammonium fluoride		15
Ammonium hexanitrocobaltate		24,102
Ammonium hydroxide		10
Ammonium hypophosphide		105
Ammonium molybdate		24
Ammonium nitrate		102
Ammonium nitridoosmate		24,104
Ammonium nitrite		102
Ammonium perchlorate		104
Ammonium periodate		102,104
Ammonium permanganate		24,102,104
Ammonium persulfate		104
Ammonium picrate		102
Ammonium sulfide		33,105
Ammonium tetrachromate		24,104
Ammonium tetraperoxychromate		24,102,104
Ammonium trichromate		24,104
Amyl acetate	Acetoxy pentane	13
Amyl alcohol		4
Amyl chloride	Chloropentane	17
Amyl cyanide		26
Amylamine	Aminopentane	7
Amylene	pentene	28
Amyl mercaptan	pentanethiol	20
Aniline		7
Animert* V-101	Tetrasul	20
Anisole		14
Anisole chloride		107
Anthracene		16
Antimony		23,24
Antimony chloride	Antimony trichloride	24,107

Antimony fluoride	Antimony trifluoride	24,107
Antimony nitride		24, 25
Antimony oxychloride		24
Antimony oxide	Antimony trioxide	24
Antimony pentachloride		24
Antimony pentafluoride		24
Antimony pentasulfide		24,33,105
Antimony perchlorate		24,104
Antimony potassium tartrate		24
Antimony sulfate	Antimony trisulfate	24
Antimony sulfide	Antimony trisulfide	24,33,105
Antimony tribromide		24,107
Antimony trichloride	Antimony chloride	24,107
Antimony trifluoride	Antimony fluoride	24,107
Antimony triiodide		24,107
Antimony trioxide	Antimony oxide	24
Antimony trisulfate	Antimony sulfate	24
Antimony trisulfide	Antimony sulfide	24,33
Antimony trivinyl		24,107
Aqualin	Acrolein	5,103
Aqueous solutions & mixtures		106
Aretan	Methoxyethylniercuric chloride	24
Aroclor*	Polychlorinated biphenyl	17
Arsenic		24
Arsenic bromide	Arsenic tribromide	24,107
Arsenic chloride	Arsenic trichloride	24,107
Arsenic disulfide	Arsenic sulfide	24,33,105
Arsenic iodide	Arsenic triiodide	24,107
Arsenic oxide	Arsenic pentoxide	24
Arsenic pentaselenide		24
Arsenic pentasulfide		24,33
Arsenic pentoxide	Arsenic oxide	24
Arsenic sulfide	Arsenic disulfide	24,33,105
Arsenic tribromide	Arsenic bromide	24,107
Arsenic trichloride	Arsenic chloride	24,107

Arsenic trifluoride		24
Arsenic triiodide	Arsenic iodide	24,107
Arsenic trisulfide		24,33,105
Arsine		24,105
Askarel	Polychlorinated biphenyl	17
Asphalt		101
Azidocarbonyl guanidine		8,102
Azido-s-triazole		8
Azinphos ethyl		32
Aziridine	Ethyleneimine	7,103
a,a'-Azodiisobutyronitrile		8.26
Azodrin*	Monocrotophos	32
Bakelite*		101
Banol	Carbanolate	9
Barium		21,24,107
Barium azide		24,102
Barium bromate		24,104
Barium carbide		24,105,107
Barium chlorate		24, 104
Barium chloride		24
Barium chromate		24, 104
Barium fluoride		15, 24
Barium fluosilicate		24
Barium hydride		24, 105
Barium hydroxide		10, 24
Barium hypophosphide		24, 105
Barium iodate		24, 104
Barium iodide		24
Barium monoxide	Barium oxide	10, 24, 107
Barium nitrate		24, 104
Barium oxide	Barium monoxide	10, 24, 107
Barium perchlorate		24, 104
Barium permanganate		24, 104
Barium peroxide		24, 104
Barium phosphate		24
Barium stearate		24, 104

Barium sulfide		24,33,105,107
Barium sulfite		24
Bassa*	BPMC	9
Bayer 25141	Fensulfothion	32
Baygon*		9
Benzadox	Topcide*	6
Benzal bromide		17
Benzal chloride		17
Benzaldehyde		5
Benz-a-pyrene		16
Benzene		16
Benzene diazonium chloride		102
Benzene phosphorus dichloride		107
Benzidine		7
Benzoic acid		3
Benzonitrile		26
Benzophenone		19
Benzoquinone	Quinone	19
Benzotriazole		8,102
Benzotribromide		17
Benzotrichloride		17
Benzotrifluoride	Trifluoromethylbenzene	17
Benzoyl chloride		107
Benzoyl peroxide	Dibenzoyl peroxide	30, 102
Benzyl alcohol		4
Benzylamine		7
Benzyl benzene	Diphenylmethane	16
Benzyl bromide	Bromotoluene	17
Benzyl chloride	Chlorotoluene	17
Benzyl chlorocarbonate	Benzyl chloroformate	17
Benzyl chloroformate	Benzyl chlorocarbonate	17
Benzyl silane		105, 107
Benzyl sodium		105
Beryllium		24
Beryllium copper alloy		24
Beryllium fluoride		15, 24

Beryllium hydride		24, 105, 107
Beryllium hydroxide		10, 24
Beryllium oxide		24
Beryllium sulfide		33, 105
Beryllium tetrahydroborate		24, 105, 107
Bidrin*		32
Bismuth		22,23,24
Bismuth chromate		24
Bismuthic acid		24
Bismuth nitride		24,25,102
Bismuth pentafluoride		24, 107
Bismuth pentaoxide		24
Bismuth sulfide		24,33,105
Bismuth tribromide		24
Bismuth trichloride		24
Bismuth triiodide		24
Bismuth trioxide		24
Bismuth trisulfide		24, 33, 105
Blada-fum*	Sulfotepp	32
Blu vitriol	Copper sulfate	24
Bomyl		32
Borane		24, 107
Bordeaux arsenites		24
Boric acid		1
Boron arsenotribromide		24, 105
Boron bromodiiodide		24, 107
Boron dibromoiodide		24, 107
Boron nitride		24,25
Boron phosphide		24, 107
Boron triazide		24, 102
Boron tribromide		24, 107
Boron trichloride		24, 107
Boron trifluoride		24, 107
Boron triiodide		24, 107
Boron trisulfide		24, 33, 105
BPMC	Bassa*	9

Brass		23
Bromic acid		2
Bromine		104
Bromine azide		102
Bromine cyanide	Cyanogen bromide	11
Bromine monofluoride		104, 107
Bromine pentafluoride		104, 107
Bromine trifluoride		104, 107
Bromoacetylene		17
Bromobenzoyl acetanilide		6, 19
Bromobenzyl trifluoride		17
Bromodiborane		105
Bromodiethylaluminum		107
Bromodimethoxyaniline		14
Bromoform	Tribromomethane	17
Bromomethane	Methyl bromide	17
Bromophenol		17, 31
Bromopropene	Allyl bromide	17
Bromopropyne		17
Bromosilane		105
Bromotoluene	Benzyl bromide	17
Bromotrichloromethane		17
Bromotrifluomethane		17
Bromoxynil	3,5-Dibromo-4-hydroxy benzonitrile	17, 26, 31
Bronze		23
Buna-N*		101
Bunker fuel oil		101
Butacarb		9
Butadiene		28, 103
Butadiyne	Diacetylene	28
Butanal	Butyraldehyde	5
Butane		29
Butanediol		4
Butanethiol	Butyl mercaptan	20
Butanetriol trinitrate		102

Butanol	Butyl alcohol	4
Butanone	Methyl ethyl ketone	19
Butenal	Crotonaldehyde	5
Butene		28
Butene-2-one	Methyl vinyl ketone	19
Butyl acetate	Acetoxybutane	13
n-Butyl acrylate		13, 103
Butylamine	Aminobutane	7
Butyl alcohol	Butanol	4
t-Butyl azidoformate		8
Butyl benzene	Phenylbutane	16
Butyl benzyl phthalate		13
Butyl cellusolve*		4
Butyl dichloroborane		105
Butyl ether	Dibutyl ether	14
Butyl formate		13
Butyl fluoride		17
Butyl glycidyl ether		34
Butyl hydroperoxide		30
t-Butyl hypochlorite		102,104
n-Butyl lithium		105, 107
Butyl mercaptan	Butanethiol	20
Butyl peroxide		30
Butyl peroxyacetate	t-Butyl perbenzoate	30
Butyl peroxybenzoate		30
Butyl peroxypivalate		30
t-Butyl perbenzoate	Butyl peroxyacetate	30
t-Butyl-3-phenyl oxazirane		34
Butyl trichlorosilane		107
Butyramide		6
Butyraldehyde	Butanol	5
Butyric acid		3
Butyronitrile		26
Bux*		9
Cacodylic acid	Dimethylarsenic acid	24
Cadmium		23,24

Cadmium acetylide		24,105,107
Cadmium amide		24, 10, 107
Cadmium azide		24,102
Cadmium bromide		24
Cadmium chlorate		24, 104
Cadmium chloride		24
Cadmium cyanide		11,24
Cadmium fluoride		15, 24
Cadmium hexamine chlorate		24, 102
Cadmium hexamine perchlorate		24, 102
Cadmium iodide		24
Cadmium nitrate		24, 102,104
Cadmium nitride		24, 25, 102
Cadmium oxide		24
Cadmium phosphate		24
Cadmium sulfide		24,33,105
Cadmium trihydrazine chlorate		24, 102
Cadmium trihydrazine perchlorate		24, 102
Calcium		24, 102
Calcium arsenate		24
Calcium arsenite		24
Calcium bromate		104
Calcium carbide		105, 107
Calcium chlorate		104
Calcium chlorite		104
Calcium fluoride		15
Calcium hexammoniate		105
Calcium hydride		105, 107
Calcium hydroxide	Hydrated lime	10
Calcium hypochlorite	Calcium oxychloride	104
Calcium hypophosphide		105
Calcium iodate		104
Calcium-manganese-silicon alloy		23
Calcium nitrate	Lime nitrate, nitrocalcite	104
Calcium oxide	Slaked lime	10, 107
Calcium oxychloride	Calcium hypochlorite	104

Calcium perchromate		104
Calcium permanganate		104
Calcium peroxide		104
Calcium phosphide		107
Calcium sulfide		33, 105
Camphor oil		101
Capric acid		3
Caproic acid	Hexanoic acid	3
Caprylic acid		3
Caprylyl peroxide	Octyl peroxide	30
Carbacrol		31
Carbaryl		9
Carbetamide		6
Carbanolate	Banol	9
Carbofuran	Furadan*	9
Carbolic acid	Phenol	31
Carbolic oil		31
Carbon, activated, spent		101
Carbon bisulfide	Carbon disulfide	20
Carbon disulfide	Carbon bisulfide	20
Carbon tetrachloride	Tetrachloromethane	17
Carbon tetrafluoride		17
Carbon tetraiodide		17
Castrix	Crimidine	7
Catechol		31
Caustic potash	Potassium hydroxide	10
Caustic soda	Sodium hydroxide	10
CDEC		12
Cellulose		101
Cellulose nitrate	Nitro cellulose	27, 102
Cerium		22
Cerium hydride		105
Cerium trisulfide		33, 105
Cerous phosphide		105
Cesium		21
Cesium amide		107

Cesium azide		102
Cesium carbide		105
Cesium fluoride		15
Cesium hexahydroaluminate		105
Cesium hydride		105,107
Cesium phosphide		107
Cesium sulfide		33, 105
Chloral hydrate	Trichloroacetaldehyde	5
Chlordane		17
Chlorestol	Polychlorinated biphenyl	17
Chlorfenvinphos		32
Chloric acid		2,104
Chlorine		104
Chlorine azide		102
Chlorine dioxide		102,104,107
Chlorine fluoroxide		102,104
Chlorine monofluoride		104,107
Chlorine monoxide		104
Chlorine pentafluoride		104,107
Chlorine trifluoride		104,107
Chlorine trioxide		102, 104
Chloroacetaldehyde		5, 17
Chloroacetic acid	Monochloroacetic acid	3,17
Chloroacetone	Monochloroacetone	17,19
Chloroacetophenone	Phenyl chloromethyl ketone	17,19
Chloroacetyl chloride		107
Chloroacetylene		102
Chloroacrylonitrile		17,26
Chloroazodin		8,17
Chlorobenzene		17
Chlorobenzotriazaole		8,17
Chlorobenzoyl peroxide		17,30
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Chlorobutyronitrile		17, 26
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Chlorodiisobutyl aluminum		105,107
Chlorodimethylamine diborane		105
Chloodinitrobenzene	Dinitrochlorobenzene	17,27
Chloro dinitrotoluene		17,27
Chlorodipropyl borane		105
Chloroethane	Ethyl chloride	17
Chloroethanol		4,7
Chloroethylenimine		17
Chloroform	Trichloromethane	17
Chlorohydrin		17
Chloromethane	Methyl chloride	17
Chloromethyl methyl ether		17
Chloromethyl phenoxyacetic acid		3, 17
Chloronitroaniline		17,27
Chloronitrobenzene	Nitrochlorobenzene	17, 27
Chloropentane	Amyl chloride	17
Chlorohenol		31
Chlorophenyl isocyanate		17,18,107
Chloropicrin	Chlorpicrin, Trichloronitromethane	17,27,102
Chloropropane	Isopropyl chloride	17
Chloropropene	Allyl chloride	17
Chloropropylene oxide	Epichlorohydrin	17,34
Chlorosilane		105
Chlorosulfonic acid		1
Chlorothion*		17,32
Chlorotoluene	Benzyl chloride	17
Chlorotoluidine		7, 17
Chlorotrinitrobenzene	Picryl chloride	17,27,102
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Chlorpicrin	Trichloronitromethane	17,27,102
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Chromic anhydride	Chromium trioxide, Chromic acid	2,24,104

Chromic chloride	Chromium trichloride	24
Chromic fluoride	Chromium trifluoride	15,24
Chromic oxide		24
Chromic sulfate	Chromium sulfate	24
Chromium		23,24
Chromium sulfate	Chromic sulfate	24
Chromic sulfide		24,33,105
Chromium trichloride	Chromic chloride	24
Chromium trifluoride	Chromic fluoride	15,24
Chromium trioxide	Chromic acid Chromic anhydride	2,24,104
Chromyl chloride	Chloro chromic anhydride	24,14,107
Chrysene		16
CMME	Methyl chloromethyl ether	14,17
Coal oil		101
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Cobalt bromide	Cobaltous brommide	24
Coblt chloride	Cobaltous chloride	24
Cobalt nitrate	Cobaltous nitrate	24,104
Cobaltous bromide	Cobalt bromide	24
Cobaltous chloride	Cobalt chloride	24
Cobaltous nitrate	Cobalt nitrate	24, 104
Cobaltous resinate	Cobalt resinate	24
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Cobalt resinate	Cobaltous resinate	24
Cobalt sulfate	Cobaltous sulfate	24
Collodion	Pyroxylin	27
Copper		23,24
Copper acetoarsenite	Paris Green	24
Copper acetylide		24,102,105,107
Copper arsenate	Cupric arsenate	24
Copper arsenite	Cupric arsenite	24
Copper chloride	Cupric chloride	24
Copper chlorotetrazole		24
Copper cyanide	Cupric cyanide	11,24

Copper nitrate	Cupric nitrate	24,104
Copper nitride		24,25
Copper sulfate	Cupric sulfate,Blue vitriol	24
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Coroxon*		32
Coumafuryl	Fumarin	19
Coumatetralyl		19
Cresol		31
Cresol glydicyl ether		34
Cresote		31
Crimidine	Castrix	7
Crotonaldehyde	Butenal	5
Crotyl alcohol		4
Crotyl bromide		17
Crotyl chloride		17
Cumene	Isopropyl benzene	16
Cumene hydroperoxide	Dimethylbenzyl hydroperoxide	30
Cupric arsenate	Copper arsenate	24
Cupric arsenite	Copper arsenite	24
Cupric chloride	Copper chloride	24
Cupric cyanide	Copper cyanide	11,24
Cupric nitrate	Copper nitrate	24,104
Cupric sulfate	Copper sulfate	24
Cupriethylenediamine	7,24	
Cyanoacetic acid	Malonic nitrile	3,26
Cyanochloropentane		17,26
Cyanogen		26
Cyanogen bromide	Bromine cyanide	11
Cyanophenphos	Surecide*	26,32
Cyanuric triazide		102
Cycloheptane		29
Cyclohexane		29
Cyclohexanol		4
Cyclohexanone		19
Cyclohexanone peroxide		30

Cyclohexylamine		7
Cylohexenyl trichlorosilane		107
Cyclohexyl phenol		31
Cyclohexyl trichlorosilane		107
Cyclopentane		29
Cyclopentanol		4
Cyclopentene		28
Cyclopropane		29
Cyclotrimethylene trinitraamine	RDX	27,102
Cymene		16
Cyolan*	Phospholan	20,32
2,4-D	Dichlorophenoxyaceti acid	3,17
Dasanit*	Fensulfothion	32
DBCP	Dibromochloropropane	17
DCB	Dichlorobezene	17
DDD		17
DDNP	Diazodinitrophenol	8,27,102
DDT		17
DDVP	Dichlorovos, Vapona*	17,32
DEAC	Diethylaluminum chloride	105,107
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Decahydronaphthalene	Decalin	29
Decalin	Decahydronaphthalene	29
Decane		29
Decanol		4
Decene		28
Decyl benzene		16
Delnav*		32
Demeton-s-methyl sulfoxid	Metasysox R*	32
Diacetone alcohol		4,19
Diacetyl		19
Diacetylene	Butadiyne	28
Diamine	Hydrazine	8,105
Diaminobenzene	Phenylene diamine	7
Diaminohexane	Hexamethylenediamine	7
Diazidoethane		8,102

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Diazodinitrophenol	DDNP	27,102
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Diborane	Diboron hexahydride	105,107
Diboron hexahydride	Diborane	105,107
Dibutyl ether	Butyl ether	14
Dibutyl phthalate		13
3,5-Dibromo-4-hydroxybenzonitrile	Bromoxynil	17,26,31
Dibromochloropropane	DBCP,Fumazone*,Nemagon*	17
Dibromoethane	Ethylene dibromide	17
Dichloroacetone		17,19
Dichloroamine		104
Dichlorobenzene	DCB	17
Dichlorobenzidine		7,17
Dichlorodimethylsilane	Dimethyl dichlorosilane	107
Dichloroethane	Ethylene dichloride	17
Dichloroethene	Dichloroethylene	17
Dichloroether	Dichloroethyl ether	14,17
Dichloroethylarsine		24,107
Ethyl dichlorosilane		107
Ethyl ether	Dichloroether	14,17
Dichloroisocyanuric acid	Dichloro-s-triazine-2,4,5-trione	104
Dichloromethane	Methylene chloride	17
Dichlorophene		17
Dichlorophenol		17,31
Dichlorophenoxyacetic acid	2,4-D	3,17
Dichloropropane	Propylene dichloride	17
Dichloropropanol		17
Dichloropropene	Dichlorpropylene	17
Dichloropropylene	Dichloropropene	17
Dichloro-s-triazine-2,4,5-trione	Dichloroisocyanuric acid	104
Dichlorovos	DDVP	17,32
Dicumyl peroxide		30
Dicyclopentadiene		28
Dieldrin		17
Diethanolamine		4,7

Diethyl aluminum chloride	Aluminum diethylmonochloride DEAL	105,107
Diethylamine		7
Diethyl benzene		16
Diethyl chlorovinyl phosphate	Compound 1836	17,32
Diethyl dichlorosilane		107
Diethylene dioxide	Dioxane	14
Diethylene glycol dinitrate		27,102
Diethylene glycol monobutyl ether acetate		13
Diethylene triamine		7
Diethyl ether		14
Diethyl ketone		19
Diethyltoluamide		6
Diethyl zinc	Zinc ethyl	24,105,107
Diesel oil		101
Difluorophosphoric acid		1
Diglycidyl ether	Bis(2,3-epoxypropyl) ether	34
Diisobutylene		28
Diisobutyl ketone		19
Diisopropanolamine		4,17
Diisopropylbenzene hydroperoxide		30
Diisopropyl beryllium		24,104,107
Diisopropyl ether	Isopropyl ether	14
Diisopropyl peroxydicarbonate	Isopropyl percarbonate	30
Dimecron*	Phosphamidon	32
Dimefox	Hanane*	6,32
Dimethyl acetylene		28
Dimethyl amine		7
Dimethylamino azobenzene	Methyl yellow	7,8
Dimethyl arsenic acid	Cacodylic acid	24
Dimethylbenzyl hydroperoxide	Cumene hydroperoxide	30
Dimethyl butane	Neohexane	29
Dimethyl butyne		28
Dimethyl dichlorosilane	Dichlorodimethylsilane	107
Dimethyldithiophosphoric acid		32

Dimethyl ether		14
Dimethyl formal		19
Dimethyl formamide		6
Dimethylhexane dihydroperoxide		30
Dimethyl hydrazine	UDMH	8
Dimethyl ketone	Acetone	19
Dimethyl magnesium		105,107
Dimethylnitrobenzene	Nitroxylene	27
Dimethylnitrosoamine	N-Nitrosodimethyl amine	7,27
Dimethyl sulfide	Methyl sulfide	20
Dimeton		32
Dinitrobenzene		27
Dinitrochlorobenzene	Chlorodinitrobenzene	17,27
2,4-Dinitro-6-sec-butyl phenol	Dinoseb	27,31
Dinitrocresol	DNOC,Elgetol 30	27,31
Dinitrophenol		27,31
Dinitrophenyl hydrazine		8,27
Dinitrotoluene		27
Dinoseb	2,4-Dinitro-6-sec-butylphenol	27,31
Dioxacarb		9
Dioxane	Diethylene dioxide	14
Dioxathion	Delnav*	32
Dipentaerythritol hexanitrate		27,102
Dipentene		28
Diphenamide		6
Diphenyl	Phenylbenzene	16
Diphenyl acetylene		16
Diphenylamine		7
Diphenylamine chloroarsine	Phenarsazine chloride	7,24
Diphenyl ethane		16
Diphenyl ethylene	Stilbene	16
Diphenyl methane	Benzylbenzene	16
Diphenylmethane diisocyanate		18,107
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Dipicryl amine	Hexanitrodiphenylamine	7,27,102
Dipropyl amine		7

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Disulfur dinitride		25,102
Disulfuryl chloride		107
Disyston*	Disulfoton	32
Dithane* M-45		12
Dithione*	Sulfotepp	32
DNOC	Dinitrocresol	27,31
Dodecene		28
Dodecyl benzene		16
Dodecyl trichlorosilane		107
Dowco-139*	Mexacarbate	9
Dowicide-I	o-Phenyl phenol	31
Dowtherm		16
Durene		16
Dyfonate*	Fonofos	32
Dynes Thinner		101
Elgetol 30	Dinitrocresol	27,31
Endolsulfan	Thiodan*	17,20
Endothall		3
Endothion	Exothion	32
Endrin		17
EPN		32
Epichlorohydrin	Chloropropylene oxide	17,34
Epoxybutane		34
Epoxybutene		34
Epoxyethane	Ethylene oxide	34,103
Epoxyethylbenzene		34
Bis(2,3-Epoxypropyl) ether	Diglycidyl ether	34
Ethane		29
Ethanethiol	Ethyl mercaptan	20
Ethanol	Ethyl alcohol	4
Ethion*	Nialate	32
Ethoxyethanol		4,14
Ethyl acetate		13
Ethyl acetylene		28
Ethylacrylate		13,103

Ethyl alcohol	Ethanol	4
Ethylamine	Aminoethane	7
Ethyl benzene	Phenylethane	16
Ethyl butanoate	Ethyl butyrate	13
Ethyl butyrate	Ethyl butanoate	13
Ethyl chloride	Chloroethane	17
Ethyl chloroformate		13,17
Ethyl dichloroarsine	Dichloroethylarsine	24,107
Ethyl dichlorosilane		107
Ethyl ether	Diethyl ether	14
Ethylene		28
Ethylene chromic oxide		24,104
Ethylene chlorohydrin		4,17
Ethylene cyanohydrin	Hydroxypropionitrile	4,26
Ethylene diamine		7
Ethylene dibromide	Dibromoethane	17
Ethylene dichloride	Dichloroethane	17
Ethylene glycol		4
Ethylene glycol dinitrate	Glycol dinitrate	27,102
Ethylene glycol monomethyl ether		4,14,17
Ethyleneimine	Aziridine	7,103
Ethylene oxide	Epoxyethane	34,103
Ethyl formate		13
2-Ethylhexyl acrylate		13,103
Ethyl mercaptan	Ethanethiol	20
Ethyl nitrate		27,102
Ethyl nitrite		27,102
Ethyl propionate		13
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Exothion	Endothion	32
Exothion	Endothion	32
Eugenol		31
Fensulfothion	Bayer 25141, Dasanit*	32
Ferbam		12
Ferric arsenate		242
Ferric sulfide		33

Ferrous arsenate	Iron arsenate	24
Ferrous sulfide		33,105
Fluoranthrene		16
Fluorene		16
Fluorine		104,107
Fluorine azide		102
Fluorine monxide	Oxygen difluoride	104,107
Fluoroacetanilide		6,17
Fluoroacetic acid		3
Fluoroboric acid		1,15
Fluorosulfonic acid	Fluosulfonic acid	1,107
Fluosulfonic acid	Fluorosulfonic acid	1,107
Fluosilicic acid		1,15
Fonofos*	Dyfonate*	32
Formaldehyde	Methanal	5
Formamide		6
Formetanate hydrochloride		6
Formic acid	Methanoic acid	3
Fostion*	Prothoate	32
Freon*		17
Fumaric acid		3
Fumarin	Coumafuryl	19
Fumazone*	Dibromochloropropane	17
Furadan*	Carbofuran	9
Furan	Furfuran	14
Furfural		5
Furfuran	Furan	14
Gas oil, cracked		101
Gasoline		101
Germanium sulfide		33, 105
Glutaraldehyde		5
Glycerin		4
Glycidol		34
Glycol diacetate		13
Glycol dinitrate	Ethylene glycol dinitrate	27,102
Glycol ether		14

Glycolic acid		3
Glycol monolactate trinitrate		27,102
Glycolonitrile		26
Gold acetylide		105,107
Gold cyanate	Gold fulminate	102
Gold fulminate	Gold cyanate	102
Gold sulfide		33, 105
Grease		101
Guaiacol		31
Gun cotton	Nitrocellulose	27,102
Guthion*		32
Hafnium		22
Hanane*	Dimefox	32
Hemimellitene		16
Heptachlor		17
Heptane		29
Heptanal		5
Heptanol		4
Heptanone		19
Heptene		28
Hexaborane		105
Hexachlorobenzene		17
Hexadecyl trichlorosilane		107
Hexaethyl tetraphosphate		32
Hexafluorophosphoric acid		1,15
Hexahydride diborane	Diborane	105,107
Hexamethyl benzene		16
Hexamethylenediame	Diaminohexane	7
Hexamethylenetetraamine		7
Hexanal		5
Hexanitrodiphenylamine	Dipicrylamine	7,27,102
Hexanol		4
Hexanoic acid	Caproic acid	3
Hexene		28
Hexylamine	Aminohexane	7
Hexyl trichlorosilane		107

Hexyne		28
HMX		102
Hopcide*		9
Hydraed lime	Calcium hydroxide	10
Hydrazine	Diamine	8,105
Hydrazine azide		8,102
Hydrazoic acid	Hydrogen azide	102
Hydriodic acid	Hydrogen iodide	1
Hydrobromic acid	Hydrogen bromide	1,107
Hydrochloric acid	Muriatic acid	1
Hydrocyanic acid	Hydrogen cyanide	1,11
Hydrofluoric acid	Hydrogen fluoride	1,15
Hydrogen azide	Hydrazoic acid	102
Hydrogen bromide	Hydroromic acid	1,107
Hydrogen cyanide	Hydrocyanic acid	1,11
Hydrogen fluoride	Hydrofluoric acid	1,15
Hydrogen iodide	Hydroiodic acid	1
Hydrogen peroxide		104
Hydrogen phosphide	Phosphine	105
Hydrogen selenide		24,105
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Hydroquinone		31
Hydroxyacetophenone		19,31
Hydroxydibromobenzoic acid		3,17
Hydroxydiphenol		31
Hydroxyhydroquinone		31
Hydroxyacetophenone		19,31
Hydroxyisobutyronitrile	Acetone cyanohydrin	4,26
Hydroxyl amine		105
Hydroxypropionitrile	Ethylene cyanohydrin	4,26
Hypochlorous acid		2
Indene		16
Indium		22,23,24
Inerteen	Polychlorinated biphenyl	17
Iodine monochloride		107
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Iron		23
Iron arsenate	Ferrous arsenate	24
Isobutane		29
Isobutanol		4
Isobutyl acetate		13
Isobutyl acrylate		13, 103
Isobutylene		28
Isodecyl acrylate		13
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Isoeugenol		31
Isohexane		29
Isooctane	Trimethylpentane	29
Isooctene		28
Isopentane	Methylbutane	29
Isophorone		19
Isoprene	Methyl butadiene	28,103
Isopropanol		4
Isopropyl acetate		13
Isopropyl acetylene		28
Isopropylamine	Aminopropane	7
Isopropyl benzene	Cumene	16
Isopropyl chloride	Chloropropane	17
Isopropyl ether	Diisopropyl ether	14
Isopropyl mercaptan		20
N-Isopropylmethylcarbamate		9
alpha-Isopropyl methylphosphoryl fluoride		17,32
Isopropyl percarbonate	Diisopropyl peroxydicarbonate	30
Isotactic propylene		101
J-100		101
Jet oil		101
Kerosene		101
Lacquer thinner		101
Landrin*		9
Lannate*	Methomyl	9,20
Lauroyl peroxide		30
Lead		23,24

Lead acetate		24
Lead arsenate	Lead orthoarsenate	24
Lead arsenite		24
Lead azide		24, 102
Lead carbonate		24
Lead chlorite		24,104
Lead cyanide		11,24
Lead dinitroresorcinate		24,27,102
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Lead nitrate		24,104
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Lime nitrate	Calcium nitrate	104
Lindane		17
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Lithium aluminum hydride		105,107
Lithium amide		10,107
Lithium ferrosilicon		107
Lithium hydride		105,107
Lithium hydroxide		10
Lithium hypochlorite		104
Lithium nitride		25
Lithium peroxide		104,107
Lithium silicon		107
Lithium sulfide		33,105
London purple		24
Lye	Sodium hydroxide	10
Magnesium		21,22
Magnesium arsenate		24
Magnesium arsenite		24
Magnesium chlorate		104
Magnesium fluoride		15

Magnesium nitrate		104
Magnesium perchlorate		104
Magnesium peroxide		104
Magnesium sulfide		33, 105
Malathion		32
Maleic acid		3
Malonic nitrile	Cyanoaceticacid	3,26
Maneb		12
Manganese		22,23,24
Manganese acetate		24
Manganese arsenate	Manganous arsenate	24
Manganese bromide	Manganous bromide	24
Manganese chloride	Manganous chloride	24
Manganese methylcyclopentadienyl-tricarbonyl		24
Manganese nitrate	Manganous nitrate	24, 104
Manganese sulfide		24, 33,105
Manganous arsenate	Manganese arsenate	24
Manganous bromide	Manganese bromide	24
Manganous chloride	Manganese chloride	24
Manganous nitrate	Manganese nitrate	104
Mannitol hexanitrate	Nitromannite	27,102
Matacil*		9
Mayer's reagent	Mercuric potassium iodide	24
Medinoterb acetate		13, 27
Meobal		9
Mercaptobenzothiazole		8,20
Mercatoethanol		4,20
Mercarbam		32
Mercuric acetate		24
Mercuric ammonium chloride	Mercury ammonium chloride	24
Mercuric benzoate	Mercury benzoate	24
Mercuric bromide		24
Mercuric chloride	Mercury chloride	24
Mercuric cyanide	Mercury cyanide	11,24
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Mercuric iodide	Mercury iodide	24
Mercuric nitrate	Mercury nitrate	24, 104
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Mercuric oxycyanide		11,24,102
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Mercuric thiocyanide	Mercury thiocyanate	24
Mercurol	Mercury nucleate	24
Mercurous bromide		24
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Mercurous iodide		24
Mercurous nitrate		24,104
Mercurous oxide		24
Mercurous sulfate	Mercury bisulfate	24
Mercury		24
Mercury (vapor)		22, 24
Mercury acetate	Mercuric acetate	24
Mercury ammonium chloride	Mercuric ammonium chloride	24
Mercury benzoate	Mercuric benzoate	24
Mercury bisulfate	Mercurous sulfate	24
Mercury chloride	Mercuric chloride	24
Mercury cyanide	mercuric cyanide	11,24
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Mercury nitrate	Mercuric nitrate	24, 104
Mercury nucleate	Mercurol	24
Mercury oleate	Mercuric oleate	24
Mercury sulfate	Mercuric sulfate	24
Mesitylene	1,3,5-trimethylbenzene	16
Messityl oxide		19
Mesurol*		9

Metasystox-R	Demeton-S-methyl sulfoxid	32
Metham		12
Methanal	Formaldehyde	5
Methane		29
Methanethiol	Methyl mercaptan	20
Methanoic acid	Formic acid	3
Methanol	Methyl alcohol	4
Methomy	lannate*	9,20
Methyoxyethylmercuric chloride	Agallolaretan*	24
Methyl acetate		13
Methyl acetone		101
Methyl acetylene	Methyl butyne	28
Methyl acrylate		13, 103
Methyl alcohol	Methanol	4
Methyl aluminum sesquibromide		105, 107
Methyl aluminum sesquichloride		105,107
Methylamine	Aminomethane	7
Methyl amyl acetate		13
N-Methyl aniline		7
Methyl aziridine	Propyleneimine	7
Methyl benzene	Toluene	16
Methyl bromide	Bromomethane	17
Methyl butadiene	Isoprene	28,104
Methyl butane	Isopentane	29
Methyl butene		28
Methyl butyl ether		14
Methy t-butyl ketone		19
Methyl butyne	Isopropyl acetylene	28
Methyl butyrate		13
Methyl chloride	Chloromethane	17
Methyl chlorocarbonate	Methyl chloroformate	13, 17
Methyl chloroform		17
Methyl chloroformate	Methyl chlorocarbonate	13, 17
Methyl chloromethyl ether	CMME	14, 17
Methyl cyande	Acetonitrile	26
Methyl cyclohexane		29

Methyl dichloroarsine		24
Methyl dichlorosilane		107
Methylene chloride	Dichloromethane	17
Methylene diisocyante		18,107
4,4-Methylene bis(2-chloroaniline)		7,17
Methyl ethyl chloride		17
Methyl ethy ether		14
Methyl ethyl ketone	Butanone	19
Methyl ethyl ketone peroxide		30
Methyl ethyl pyridine		7
Methyl formate		13
Methyl hydrazine	Monomethyl hydrazine	8
Methyl iodide		17
Methyl isobutyl ketone		19
Methyl isocyante		18,107
Methyl isopropenyl ketone		19
Methyl magnesium bromide		105,107
Methyl magnesium chloride		105,107
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Methy mercaptan	Methanethiol	20
Methyl methacrylate		13, 103
Methyl naphthalene		16
Methyl parathion		32
Methyl pentanoate	Methyl valerate	13
Methyl propionate		13
Methyl n-propyl ketone		19
Methyl styrene		28,103
Methyl sulfide	Dimethyl sufide	20
Methyl trichlorosilane		107
Methyl valerate	Methyl pentanoate	13
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Methyl yellow	Dimethylamino azobenzene	7,8
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Mobam*		9
Mocap*		32
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Molybdenum sulfide		24,33,105
Molybdenum trioxide	Molybdenum anhydride	24
Molybdic acid		24
Monochloroacetone	Chloroacetone	17,19
Monochloroacetic acid	Chloroacetic acid	3,17
Monocrotophos	Azodrin*	32
Monoehtanol amine		4,7
Monofluorophosphoric acid		1
Monoisopropanolamine		4,7
Monomethyl hydrazine	Methyl hydrazine	8
Morpholine		7
Municipal solid waste	Refuse	101
Muriatec acid	Hydrochloric acid	1
Nabam		12
Nack	Sodium-potassium alloy	21,107
Nak	Sodium-potassium alloy	21,107
Naptha		101
Naphthalene		16
Naphthol		31
Naphthylamine		7
Naphthyl mercaptan		20
Naphtite	Trinitrohaphthalene	27,102
Nemagon*	Dibromonchloropropane	17
Neohexane	Dimethyl butane	29
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Niacide*		12
Nialate	Ethion	32
Nickel		22, 24
Nickel acetate		24
Nickel antimonide		24, 107
Nickel arsenate	Nickelous arsenate	24

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Nickel carbonyl	Nickel tetracarbonyl	24
Nickel chloride	Nickelous chloride	24
Nickel cyanide		11,24
Nickel nitrate	Nickelous nitrate	24, 104
Nickelous arsenate	Nickel arsenate	24
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Nickelous chloride	Nickel chloride	24
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Nickel subsulfide		24,33,105
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Nitraniline	Nitroaniline	7,27
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Nitroaniline	Nitraniline	7,27
Nitrobenzene	Nitrobenzol	27
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Nitromannite	Mannitol hexanitrate	27,102
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Nitrogen tetroxide		104
Nitroglycerin	Trinitroglycerin	27,102
Nitrohydrochloric acid		2
Nitrophenol		27,31
Nitropropane		27
Nitrosodimethylamine	Dimethylnitrosiamine	7,27
Nitrosoguanidine		27,102
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N-Nitrosodimethylamine	Dimethylnitrosoamine	7,27
Nonyl phenol		31
Nonyl trichlorosilane		107
Nonane		29
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Nonanone		19
Nonanal		5
Nonanol		4
Octadecyl trichlorosilane		107
Octadecyne		28
Ocamethylpyrophosphoramide	Schradan	6,32
Octanal		5
Octane		29
Octanone		19
Octanol		4
Octene		28
Octyl peroxide	Caprylyl peroxide	30
Octyl trichlorosilane		107
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Oleum	Sulfuric acid	2,24
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Orthozenol	o-Phenyl phenol	31
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Osmium amine nitrate		24, 104
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Paraoxon	Mintacol*	32
Parathion		32
Paris green	Copper acetoarsenite	24
PETD	Polyram combi*	12
PETN	Pentaerythrityl tetranitrate, Pentaerythritol tetranitrate	27,102
Pentaborane		105
Pentachlorophenol		17,31
Pentaerythritol tetranitrate	Pentaerythrityl tetranitrate, PETN	27,102

Pentamethyl benzene		16
Pentane		29
Pentanethiol	Amyl mercaptan	20
Pentanal	Valeraldehyde	5
Pentanone		19
Pentene	Amylene	28
Pentylamine		7
Pentyne		28
Peracetic acid	Peroxyacetic acid	3,30
Perbromic acid		2
Perchloric acid		2
Perchloroethylene	Tetrachloroethylene	17
Perchloromethyl mercaptan	Trichloromethylsulfenylchloride	17,20
Perchlorous acid		2
Perchloryl fluoride		104
Periodic acid		2
Permonosulfuric acid		1
Peroxyacetic acid	Peracetic acid	3,30
PETD	Polyram combi*	12
Petroleum naptha		101
Petroleum oil		101
Phenanthrene		16
Phenarsazine chloride	Diphenylamine chloroarsine	7,24
Phenol	Carbolic acid	31
Phenyl acetic acid		3
Phenyl acetronitrile		26
Phenyl acetylene		16
Phenylaniline	Diphenylamine	7
Phenyl benzene	Diphenyl	16
Phenylbutane	Butylbenzene	16
Phenylchloromethyl ketone	Chloroacetophenone	17,19
Phenyl dichloroarsine		24
Phenylene diamine	Diaminobenzene	7
Phenylethane	Ethylbenzene	16
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o-Phenyl phenol	Orthozenol, Dowicide 1	31

Phenyl trichlorosilane		107
Phenyl valerylnitrile		26
Phenylpropane	Propylbenzene	16
Phloroglucinol		31
Phorate	Thimet*	32
Phosdrin*	Mevinphos	32
Phosphamidon	Dimecron*	32
Phosphine	Hydrogen phosphide	105
Phospholan	Cyolan*	20,32
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Phosphoric anhydride	Phosphorus pentoxide	107
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Phosphorus heptasulfide		33, 105
Phosphorus oxybromide	Phosphoryl bromide	104,107
Phosphorus oxychloride	Phosphoryl chloride	104,107
Phosphorus pentachloride	Phosphoric cloride	107
Phosphorus pentasulfide	Phosphoric sulfide	33,105, 107
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Phosphorus sesquisulfide	Tetraphosphorus trisulfide	33, 105,107
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Phosphorus trisulfide		33, 105, 107
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Phosphoryl chloride	Phosphorus oxychloride	104,107
Phthalic acid		3
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Picric acid	Trinitrophenol	27,31,102
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Picryl chloride	Chlorotrinitrobenzene	17,27,102
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Polyglycol ether		14
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Polybutene		28
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Polyethylene		101
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Potassium aluminate		10
Potassium arsenate		24
Potassium arsenite		24
Potassium bifluoride	Potassium fluoride	15
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Potassium bromate		104
Potassium butoxide		10
Potassium cyanide		11
Potassium dichloroisocyanurate		104
Potassium dichromate	Potassium bichromate	24, 104
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Potassium fluoride	Potassium acid fluoride	15
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Potassium nitrate	Saltpeter	102,104
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Potassium ntirite		104
Potassium oxide		107
Potassium perchlorate		104
Potassium permanganate		24, 104
Potassium peroxide		104,107
Potassium sulfide		33, 105
Promecarb		9
Propanal	Propionaldehyde	5
Propane		29
Propanethiol	Propyl mercaptan	20
Propanoic acid	Propionic acid	3
Propanol	Propyl alcohol	4
Propargyl bromide		17
Propargyl chloride		17
2-Propen-1-ol	Allyl alcohol	4
Propioactone		13
Propionaldehyde	Propanal	5
Propionamide		6
Propionic acid	Propanoic acid	3
Propionitrile		26
Propyl acetate		13
Propyl alcohol	Propanol	4
Propylamine		7
Propyl benzene	Phenyl propane	16
Propylene dichloride	Dichloropropane	17
Propylene glycol		4
Propylene glycol monomethyl ether		4,14
Propylene oxide		34, 103
Propyleneimine	Methyl aziridine	7
Propyl ether		14
Propyl formate		13
Propyl mercaptan	Propanethiol	20
Propyl Trichlorosilane		107
Prothoate	Fostion*	32
Pseudocumene	1,2,4-trimethylbenzene	16
Pyridine		7

Pyrogallol		31
Pyrosulfuryl chloride	Disulfuryl chloride	107
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Quinone	Benzoquinone	19
Raney nickel		22
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Selenious acid	Selenous acid	1,24
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Selenous acid	Selenious acid	1,24
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Silver azide		24, 102
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Sodium aluminate		10,105
Sodium aluminum hydride		105,107
Sodium amide	Sodamide	10,107
Sodium arsenate		24
Sodium arsenite		24
Sodium azide		102
Sodium bichromate	Sodium dichromate	24, 104
Sodium bifluoride	Sodium fluoride	15
Sodium bromate		104
Sodium cacodylate	Sodium dimethylaarsenate	24
Sodium carbonate		10
Sodium carbonate peroxide		104
Sodium chlorate		104
Sodium chlorite		104
Sodium chromate		24
Sodium cyanide		11
Sodium dichloroisocyanurate		104
Sodium dichromate	Sodium bichromate	24,104
Sodium dimethylarsenate	Sodium cacodylate	24
Sodium fluoride	Sodium acid fluoride	15
Sodium hydride		105,107
Sodium hydroxide	Caustic soda, Lye	10
Sodium hypochlorite		10,104
Sodium hyposulfite	Sodium thiosulfate	105
Sodium methylate	Sodium methoxide	10,107
Sodium methoxide	Sodium methylate	10,107
Sodium molybdate		24
Sodium monoxide	Sodium oxide	10,107
Sodium nitrate	Soda niter	104
Sodium nitride		25
Sodium nitrite		104
Sodium oxide	Sodium monoxide	10,107
Sodium pentachlorophenate		31
Sodium perchlorate		104

Sodium permanganate		24, 104
Sodium peroxide		104,107
Sodium phenolsulfonate		31
Sodium picramate		27,102
Sodium polysulfide		101
Sodium potassium alloy	Nak, Nack	21, 107
Sodium selenate		24
Sodium sulfide		24, 33, 105
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Stannic chloride	Tin tetrachloride	24, 107
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Starch nitrate	Nitrostarch	27,102
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Strontium		24
Strontium arsenate		24
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Strontium peroxide	Strontium dioxide	104
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Styphnic acid	Trinitroresorcinol	27,31,102
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Succinic acid peroxide		30
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Sulfur chloride	Sulfur monochloride	107
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Sulfuric acid	Oil of Vitriol, Oleum	2,107
Sulfuric anhydride	Sulfur trioxide	104,107
Sulfur monochloride	Sulfur chloride	107
Sulfur mustard		20
Sulfur oxychloride	Thionyl chloride	107
Sulfur pentafluoride		15,107

Sulfur trioxide	Sulfuric anhydride	104,107
Sulfuryl chloride	Sulfonyl chloride	107
Sulfuryl fluoride	Sulfonyl fluoride	107
Supracide*	Ultracide*	32
Surecide*	Cyanophenphos	32
Synthetic rubber		101
TCDD	Tetrachlorodibenzo-p-dioxin	14,17
TEDP	Tetraethyl dithionopyrophosphate	32
TEL	Tetraethyl lead	24
TEPA	Tris-(1-aziridinyl) phosphine oxide	6, 32
TEPP	Tetraethyl pyrophosphate	32
THF	Tetrahydrofuran	14
TMA	Trimethylamine	7
TML	Tetramethyl lead	24
TNB	Trinitrobenzene	27,102
TNT	Trinitrotoluene	27,102
Tall oil		101
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Tetraborane		105
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Tetrachloroethane		17
Tetrachloroethylene	Perchloroethylene	17
Tetrachloromethane	Carbon tetrachloride	17
Tetrachlorophenol		17,31
Tetrachloropropyl ether		14, 17
Tetradecene		28
Tetraethyl dithionopyrophosphate	TEDP	32
Tetraethyl lead	TEL	24
Tetraethyl pyrophosphate	TEPP	32
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Tetramethylenediamine		7
Tetramethyl lead	TML	24
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Thionyl chloride	Sulfur oxychloride	107
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Toluene	Toluol, Methylbenzene	16
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Toluidine	Aminotoluene	7

Toluol	Toluene, Methylbenzene	16
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Triamphos	Wepsyn* 155	6,32
Tribromomethane	Bromoform	17
Tri-n-butylaluminum		107
Tricadmium dinitride		24,25
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Trichloroacetaldehyde	Chloral hydrate	5,17
Trichloroborane		107
Trichloroethane		17
Trichloroethene	Trichloroethylene	17
Trichloroisocyanuric acid		104
Trichloromethane	Chloroform	17
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Trichloronitromethane	Chloropicrin	17,27,102
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Triethyl aluminum		105,107
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Valeramide		6
Valeric acid		3
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