

US EPA ARCHIVE DOCUMENT

# 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.

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

**Reactivity Code**

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
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← EXTREMELY REACTIVE | DO NOT MIX WITH ANY CHEMICAL OR WASTE MATERIAL | EXTREMELY REACTIVE →

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

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

  

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

  

← EXTREMELY REACTIVE | DO NOT MIX WITH ANY OTHER REACTIVITY GROUP | EXTREMELY REACTIVE →

1	2	3	4	5	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
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**HAZARDOUS WASTE COMPATIBILITY CHART**

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

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



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

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

<u>Arsenic trifluoride</u>		24
Arsenic triiodide	Arsenic iodide	24,107
Arsenic trisulfide		24,33,105
<u>Arsine</u>		24,105
Askarel	Polychlorinated biphenyl	17
Asphalt		101
<u>Azidocarbonyl guanidine</u>		8,102
Azido-s-triazole		8
Azinphos ethyl		32
<u>Aziridine</u>	Ethyleneimine	7,103
a,a'-Azodiisobutyronitrile		8,26
Azodrin*	Monocrotophos	32
<u>Bakelite*</u>		101
Banol	Carbanolate	9
Barium		21,24,107
<u>Barium azide</u>		24,102
Barium bromate		24,104
Barium carbide		24,105,107
<u>Barium chlorate</u>		24, 104
Barium chloride		24
Barium chromate		24, 104
<u>Barium fluoride</u>		15, 24
Barium fluosilicate		24
Barium hydride		24, 105
<u>Barium hydroxide</u>		10, 24
Barium hypophosphide		24, 105
Barium iodate		24, 104
<u>Barium iodide</u>		24
Barium monoxide	Barium oxide	10, 24, 107
Barium nitrate		24, 104
<u>Barium oxide</u>	Barium monoxide	10, 24, 107
Barium perchlorate		24, 104
Barium permanganate		24, 104
<u>Barium peroxide</u>		24, 104
Barium phosphate		24
Barium stearate		24, 104

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

<u>Beryllium hydride</u>		24, 105, 107
Beryllium hydroxide		10, 24
Beryllium oxide		24
<u>Beryllium sulfide</u>		33, 105
Beryllium tetrahydroborate		24, 105, 107
Bidrin*		32
<u>Bismuth</u>		22, 23, 24
Bismuth chromate		24
Bismuthic acid		24
<u>Bismuth nitride</u>		24, 25, 102
Bismuth pentafluoride		24, 107
Bismuth pentaoxide		24
<u>Bismuth sulfide</u>		24, 33, 105
Bismuth tribromide		24
Bismuth trichloride		24
<u>Bismuth triiodide</u>		24
Bismuth trioxide		24
Bismuth trisulfide		24, 33, 105
<u>Blada-fum*</u>	Sulfotepp	32
Blu vitriol	Copper sulfate	24
Bomyl		32
<u>Borane</u>		24, 107
Bordeaux arsenites		24
Boric acid		1
<u>Boron arsenotribromide</u>		24, 105
Boron bromodiodide		24, 107
Boron dibromoiodide		24, 107
<u>Boron nitride</u>		24, 25
Boron phosphide		24, 107
Boron triazide		24, 102
<u>Boron tribromide</u>		24, 107
Boron trichloride		24, 107
Boron trifluoride		24, 107
<u>Boron triiodide</u>		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
<u>Butanone</u>	Methyl ethyl ketone	19
Butenal	Crotonaldehyde	5
Butene		28
<u>Butene-2-one</u>	Methyl vinyl ketone	19
Butyl acetate	Acetoxybutane	13
n-Butyl acrylate		13, 103
<u>Butylamine</u>	Aminobutane	7
Butyl alcohol	Butanol	4
t-Butyl azidoformate		8
<u>Butyl benzene</u>	Phenylbutane	16
Butyl benzyl phthalate		13
Butyl cellusolve*		4
<u>Butyl dichloroborane</u>		105
Butyl ether	Dibutyl ether	14
Butyl formate		13
<u>Butyl fluoride</u>		17
Butyl glycidyl ether		34
Butyl hydroperoxide		30
<u>t-Butyl hypochlorite</u>		102,104
n-Butyl lithium		105, 107
Butyl mercaptan	Butanethiol	20
<u>Butyl peroxide</u>		30
Butyl peroxyacetate	t-Butyl perbenzoate	30
Butyl peroxybenzoate		30
<u>Butyl peroxy-pivalate</u>		30
t-Butyl perbenzoate	Butyl peroxyacetate	30
t-Butyl-3-phenyl oxazirane		34
<u>Butyl trichlorosilane</u>		107
Butyramide		6
Butyraldehyde	Butanol	5
<u>Butyric acid</u>		3
Butyronitrile		26
Bux*		9
<u>Cacodylic acid</u>	Dimethylarsenic acid	24
Cadmium		23,24

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



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

Cesium azide		102
<u>Cesium carbide</u>		105
Cesium fluoride		15
Cesium hexahydroaluminate		105
<u>Cesium hydride</u>		105,107
Cesium phosphide		107
Cesium sulfide		33, 105
<u>Chloral hydrate</u>	Trichloroacetaldehyde	5
Chlordane		17
Chlorestol	Polychlorinated biphenyl	17
<u>Chlorfenvinphos</u>		32
Chloric acid		2,104
Chlorine		104
<u>Chlorine azide</u>		102
Chlorine dioxide		102,104,107
Chlorine fluoroxide		102,104
<u>Chlorine monofluoride</u>		104,107
Chlorine monoxide		104
Chlorine pentafluoride		104,107
<u>Chlorine trifluoride</u>		104,107
Chlorine trioxide		102, 104
Chloroacetaldehyde		5, 17
<u>Chloroacetic acid</u>	Monochloroacetic acid	3,17
Chloroacetone	Monochloroacetone	17,19
Chloroacetophenone	Phenyl chloromethyl ketone	17,19
<u>Chloroacetyl chloride</u>		107
Chloroacetylene		102
Chloroacrylonitrile		17,26
<u>Chloroazodin</u>		8,17
Chlorobenzene		17
Chlorobenzotriazaole		8,17
<u>Chlorobenzoyl peroxide</u>		17,30
Chlorobenzylidene malononitrile		17, 26
Chlorobutyronitrile		17, 26
<u>Chloro chromic anhydride</u>	Chromyl chloride	24, 104, 107
Chlorocreosol		17, 31

Chlorodiborane		105
<u>Chlorodiisobutyl aluminum</u>		<u>105,107</u>
Chlorodimethylamine diborane		105
Chloodinitrobenzene	Dinitrochlorobenzene	17,27
<u>Chloro dinitrotoluene</u>		<u>17,27</u>
Chlorodipropyl borane		105
Chloroethane	Ethyl chloride	17
<u>Chloroethanol</u>		<u>4,7</u>
Chloroethylenimine		17
Chloroform	Trichloromethane	17
<u>Chlorohydrin</u>		<u>17</u>
Chloromethane	Methyl chloride	17
Chloromethyl methyl ether		17
<u>Chloromethyl phenoxyacetic acid</u>		<u>3, 17</u>
Chloronitroaniline		17,27
Chloronitrobenzene	Nitrochlorobenzene	17, 27
<u>Chloropentane</u>	<u>Amyl chloride</u>	<u>17</u>
Chlorohenol		31
Chlorophenyl isocyanate		17,18,107
Chloropicrin	Chlorpicrin, Trichloronitromethane	17,27,102
Chloropropane	Isopropyl chloride	17
Chloropropene	Allyl chloride	17
<u>Chloropropylene oxide</u>	<u>Epichlorohydrin</u>	<u>17,34</u>
Chlorosilane		105
Chlorosulfonic acid		1
<u>Chlorothion*</u>		<u>17,32</u>
Chlorotoluene	Benzyl chloride	17
Chlorotoluidine		7, 17
<u>Chlorotrinitrobenzene</u>	<u>Picryl chloride</u>	<u>17,27,102</u>
$\beta$ -Chlorovinylchloroarsine	Lewisite	24
Chlorpicrin	Trichloronitromethane	17,27,102
Chromic acid	Chromic anhydride, Chromium trioxide	2,24,104
Chromic anhydride	Chromium trioxide, Chromic acid	2,24,104

Chromic chloride	Chromium trichloride	24
<u>Chromic fluoride</u>	<u>Chromium trifluoride</u>	<u>15,24</u>
Chromic oxide		24
Chromic sulfate	Chromium sulfate	24
<u>Chromium</u>		<u>23,24</u>
Chromium sulfate	Chromic sulfate	24
Chromic sulfide		24,33,105
<u>Chromium trichloride</u>	<u>Chromic chloride</u>	<u>24</u>
Chromium trifluoride	Chromic fluoride	15,24
Chromium trioxide	Chromic acid	
	Chromic anhydride	2,24,104
<u>Chromyl chloride</u>	<u>Chloro chromic anhydride</u>	<u>24,14,107</u>
Chrysene		16
CMME	Methyl chloromethyl ether	14,17
<u>Coal oil</u>		<u>101</u>
Coal tar		31
Cobalt		22,23,24
<u>Cobalt bromide</u>	<u>Cobaltous bromide</u>	<u>24</u>
Cobalt chloride	Cobaltous chloride	24
Cobalt nitrate	Cobaltous nitrate	24,104
<u>Cobaltous bromide</u>	<u>Cobalt bromide</u>	<u>24</u>
Cobaltous chloride	Cobalt chloride	24
Cobaltous nitrate	Cobalt nitrate	24, 104
<u>Cobaltous resinate</u>	<u>Cobalt resinate</u>	<u>24</u>
Cobaltous sulfate	Cobalt sulfate	24
Cobalt resinate	Cobaltous resinate	24
<u>Cobalt sulfate</u>	<u>Cobaltous sulfate</u>	<u>24</u>
Collodion	Pyroxylin	27
Copper		23,24
<u>Copper acetoarsenite</u>	<u>Paris Green</u>	<u>24</u>
Copper acetylde		24,102,105,107
Copper arsenate	Cupric arsenate	24
<u>Copper arsenite</u>	<u>Cupric arsenite</u>	<u>24</u>
Copper chloride	Cupric chloride	24
Copper chlorotetrazole		24
<u>Copper cyanide</u>	<u>Cupric cyanide</u>	<u>11,24</u>

Copper nitrate	Cupric nitrate	24,104
Copper nitride		24,25
Copper sulfate	Cupric sulfate. Blue vitriol	24
Copper sulfide		24,33,105
Compound 1836	Diethyl chlorvinyl phosphate	17,32
Coroxon*		32
Coumafuryl	Fumarin	19
Coumatetrayl		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
<u>Cyclohexyl phenol</u>		<u>31</u>
Cyclohexyl trichlorosilane		107
Cyclopentane		29
<u>Cyclopentanol</u>		<u>4</u>
Cyclopentene		28
Cyclopropane		29
<u>Cyclotrimethylene trinitraamine</u>	RDX	<u>27,102</u>
Cymene		16
Cyolan*	Phospholan	20,32
<u>2,4-D</u>	Dichlorophenoxyaceti acid	<u>3,17</u>
Dasanit*	Fensulfothion	32
DBCP	Dibromochloropropane	17
<u>DCB</u>	Dichlorobezene	<u>17</u>
DDD		17
DDNP	Diazodinitrophenol	8,27,102
<u>DDT</u>		<u>17</u>
DDVP	Dichlorovos, Vapona*	17,32
DEAC	Diethylaluminum chloride	105,107
<u>Decaborane</u>		<u>107</u>
Decahydronaphthalene	Decalin	29
Decalin	Decahydronaphthalene	29
<u>Decane</u>		<u>29</u>
Decanol		4
Decene		28
<u>Decyl benzene</u>		<u>16</u>
Delnav*		32
Demeton-s-methyl sulfoxid	Metasysox R*	32
<u>Diacetone alcohol</u>		<u>4,19</u>
Diacetyl		19
Diacetylene	Butadiyne	28
<u>Diamine</u>	Hydrazine	<u>8,105</u>
Diaminobenzene	Phenylene diamine	7
Diaminohexane	Hexamethylenediamine	7
<u>Diazidoethane</u>		<u>8,102</u>

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

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



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

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

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

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

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

Hexyne		28
<u>HMX</u>		102
Hopcide*		9
Hydraed lime	Calcium hydroxide	10
<u>Hydrazine</u>	Diamine	8,105
Hydrazine azide		8,102
Hydrazoic acid	Hydrogen azide	102
<u>Hydroiodic acid</u>	Hydrogen iodide	1
Hydrobromic acid	Hydrogen bromide	1,107
Hydrochloric acid	Muriatic acid	1
<u>Hydrocyanic acid</u>	Hydrogen cyanide	1,11
Hydrofluoric acid	Hydrogen fluoride	1,15
Hydrogen azide	Hydrazoic acid	102
<u>Hydrogen bromide</u>	Hydroromic acid	1,107
Hydrogen cyanide	Hydrocyanic acid	1,11
Hydrogen fluoride	Hydrofluoric acid	1,15
<u>Hydrogen iodide</u>	Hydroiodic acid	1
Hydrogen peroxide		104
Hydrogen phosphide	Phosphine	105
<u>Hydrogen selenide</u>		24,105
Hydrogen sulfide		33, 105
Hydroquinone		31
<u>Hydroxyacetophenone</u>		19,31
Hydroxydibromobenzoic acid		3,17
Hydroxydiphenol		31
<u>Hydroxyhydroquinone</u>		31
Hydroxyacetophenone		19,31
Hydroxyisobutyronitrile	Acetone cyanohydrin	4,26
<u>Hydroxyl amine</u>		105
Hydroxypropionitrile	Ethylene cyanohydrin	4,26
Hypochlorous acid		2
<u>Indene</u>		16
Indium		22,23,24
Inerteen	Polychlorinated biphenyl	17
<u>Iodine monochloride</u>		107
Iodine pentoxide		104

Iron		23
<u>Iron arsenate</u>	<u>Ferrous arsenate</u>	<u>24</u>
Isobutane		29
Isobutanol		4
<u>Isobutyl acetate</u>		<u>13</u>
Isobutyl acrylate		13, 103
Isobutylene		28
<u>Isodecyl acrylate</u>		<u>13</u>
isodurene		16
Isoeugenol		31
<u>Isohexane</u>		<u>29</u>
Isooctane	Trimethylpentane	29
Isooctene		28
<u>Isoopentane</u>	<u>Methylbutane</u>	<u>29</u>
Isophorone		19
Isoprene	Methyl butadiene	28,103
<u>Isopropanol</u>		<u>4</u>
Isopropyl acetate		13
Isopropyl acetylene		28
<u>Isopropylamine</u>	<u>Aminopropane</u>	<u>7</u>
Isopropyl benzene	Cumene	16
Isopropyl chloride	Chloropropane	17
<u>Isopropyl ether</u>	<u>Diisopropyl ether</u>	<u>14</u>
Isopropyl mercaptan		20
N-Isopropylmethylcarbamate		9
<u>alpha-Isopropyl methylphosphoryl fluoride</u>		<u>17,32</u>
Isopropyl percarbonate	Diisopropyl peroxydicarbonate	30
Isotactic propylene		101
<u>I-100</u>		<u>101</u>
Jet oil		101
Kerosene		101
<u>Lacquer thinner</u>		<u>101</u>
Landrin*		9
Lannate*	Methomyl	9,20
<u>Lauroyl peroxide</u>		<u>30</u>
Lead		23,24

Lead acetate		24
<u>Lead arsenate</u>	<u>Lead orthoarsenate</u>	24
Lead arsenite		24
Lead azide		24, 102
<u>Lead carbonate</u>		24
Lead chlorite		24,104
Lead cyanide		11,24
<u>Lead dinitroresorcinate</u>		24,27,102
Lead mononiroresorcinate		24,27,102
Lead nitrate		24,104
<u>Lead orthoarsenate</u>	<u>Lead arsenate</u>	24
Lead oxide		24
Lead styphnate	Lead trinitroresorcinate	24,27,102
<u>Lead sulfide</u>		24,33,104
Lead trinitroresorcinate	Lead sryphnate	24,27,102
Lewisite	$\beta$ -Chlorovinylchloroarsine	24
<u>Lime nitrate</u>	<u>Calcium nitrate</u>	104
Lindane		17
Lithium		21,107
<u>Lithium aluminum hydride</u>		105,107
Lithium amide		10,107
Lithium ferrosilicon		107
<u>Lithium hydride</u>		105,107
Lithium hydroxide		10
Lithium hypochlorite		104
<u>Lithium nitride</u>		25
Lithium peroxide		104,107
Lithium silicon		107
<u>Lithium sulfide</u>		33,105
London purple		24
Lye	Sodium hydroxide	10
<u>Magnesium</u>		21,22
Magnesium arsenate		24
Magnesium arsenite		24
<u>Magnesium chlorate</u>		104
Magnesium fluoride		15



Magnesium nitrate		104
<u>Magnesium perchlorate</u>		104
Magnesium peroxide		104
Magnesium sulfide		33, 105
<u>Malathion</u>		32
Maleic acid		3
Malonic nitrile	Cyanoacetic acid	3,26
<u>Maneb</u>		12
Manganese		22,23,24
Manganese acetate		24
<u>Manganese arsenate</u>	<u>Manganous arsenate</u>	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
<u>Manganous arsenate</u>	<u>Manganese arsenate</u>	24
Manganous bromide	Manganese bromide	24
Manganous chloride	Manganese chloride	24
<u>Manganous nitrate</u>	<u>Manganese nitrate</u>	104
Mannitol hexanitrate	Nitromannite	27,102
Matacil*		9
<u>Mayer's reagent</u>	<u>Mercuric potassium iodide</u>	24
Medinoterb acetate		13, 27
Meobal		9
Mercaptobenzothiazole		8,20
<u>Mercatoethanol</u>		4,20
Mercarbam		32
Mercuric acetate		24
<u>Mercuric ammonium chloride</u>	<u>Mercury ammonium chloride</u>	24
Mercuric benzoate	Mercury benzoate	24
Mercuric bromide		24
<u>Mercuric chloride</u>	<u>Mercury chloride</u>	24
Mercuric cyanide	Mercury cyanide	11,24
Mercuric dioxysulfate	mercuric subsulfate	24

<u>Mercuric iodide</u>	<u>Mercury iodide</u>	24
Mercuric nitrate	Mercury nitrate	24, 104
Mercuric oleate	Mercury oleate	24
<u>Mercuric oxide</u>		24
Mercuric oxycyanide		11,24,102
Mercuric potassium iodide	Mayer's reagent	24
<u>Mercuric salicylate</u>	<u>Salicylate mercury</u>	24
Mercuric subsulfate	Mercuric dioxysulfate	24
Mercuric sulfate	Mercury sulfate	24
<u>Mercuric sulfide</u>		24,33,105
Mercuric thiocyanate	Mercury thiocyanide	24
Mercuric thiocyanide	Mercury thiocyanate	24
<u>Mercuriol</u>	<u>Mercury nucleate</u>	24
Mercurous bromide		24
Mercurous gluconate		24
<u>Mercurous iodide</u>		24
Mercurous nitrate		24,104
Mercurous oxide		24
<u>Mercurous sulfate</u>	<u>Mercury bisulfate</u>	24
Mercury		24
Mercury (vapor)		22, 24
<u>Mercury acetate</u>	<u>Mercuric acetate</u>	24
Mercury ammonium chloride	Mercuric ammonium chloride	24
Mercury benzoate	Mercuric benzoate	24
<u>Mercury bisulfate</u>	<u>Mercurous sulfate</u>	24
Mercury chloride	Mercuric chloride	24
Mercury cyanide	mercuric cyanide	11,24
<u>Mercury fulminate</u>		24, 102
Mercury iodide	Mercuric iodide	24
Mercury nitrate	Mercuric nitrate	24, 104
<u>Mercury nucleate</u>	<u>Mercuriol</u>	24
Mercury oleate	Mercuric oleate	24
Mercury sulfate	Mercuric sulfate	24
<u>Mesitylene</u>	<u>1,3,5-trimethylbenzene</u>	16
Mesityl oxide		19
Mesurol*		9

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

<u>Methyl dichloroarsine</u>		24
Methyl dichlorosilane		107
Methylene chloride	Dichloromethane	17
<u>Methylene diisocyanate</u>		18,107
4,4-Methylene bis(2-chloroaniline)		7,17
Methyl ethyl chloride		17
<u>Methyl ethyl ether</u>		14
Methyl ethyl ketone	Butanone	19
Methyl ethyl ketone peroxide		30
<u>Methyl ethyl pyridine</u>		7
Methyl formate		13
Methyl hydrazine	Monomethyl hydrazine	8
<u>Methyl iodide</u>		17
Methyl isobutyl ketone		19
Methyl isocyanate		18,107
<u>Methyl isopropenyl ketone</u>		19
Methyl magnesium bromide		105,107
Methyl magnesium chloride		105,107
<u>Methyl magnesium iodide</u>		105, 107
Methyl mercaptan	Methanethiol	20
Methyl methacrylate		13, 103
<u>Methyl naphthalene</u>		16
Methyl parathion		32
Methyl pentanoate	Methyl valerate	13
<u>Methyl propionate</u>		13
Methyl n-propyl ketone		19
Methyl styrene		28,103
<u>Methyl sulfide</u>	Dimethyl sulfide	20
Methyl trichlorosilane		107
Methyl valerate	Methyl pentanoate	13
<u>Methyl vinyl ketone</u>	Butene-2-one	19
Methyl yellow	Dimethylamino azobenzene	7,8
Mevinphos	Phosdrin*	32
<u>Mexacarbate</u>	Dowco-139*	9
Mineral spirits		101
Mintacol*	Paraoxon	32

Mipcin*		9
Mobam*		9
Mocap*		32
Molybdenum		22,23,24
Molybdenum anhydride	Molybdenum trioxide	24
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
Monoethanol amine		4,7
Monofluorophosphoric acid		1
Monoisopropanolamine		4,7
Monomethyl hydrazine	Methyl hydrazine	8
Morpholine		7
Municipal solid waste	Refuse	101
Muriatic 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	Trinitrophenalene	27,102
Nemagon*	Dibromochloropropane	17
Neohexane	Dimethyl butane	29
4-NBP	Nitrophenyl	27
Niacide*		12
Nialate	Ethion	32
Nickel		22, 24
Nickel acetate		24
Nickel antimonide		24, 107
Nickel arsenate	Nickelous arsenate	24

<u>Nickel arsenite</u>	<u>Nickelous arsenite</u>	24
Nickel carbonyl	Nickel tetracarbonyl	24
Nickel chloride	Nickelous chloride	24
<u>Nickel cyanide</u>		11,24
Nickel nitrate	Nickelous nitrate	24, 104
Nickelous arsenate	Nickel arsenate	24
<u>Nickelous arsenite</u>	<u>Nickel arsenite</u>	24
Nickelous chloride	Nickel chloride	24
Nickelous nitrate	Nickel nitrate	24, 104
<u>Nickel selenide</u>		24
Nickel subsulfide		24,33,105
Nickel sulfate		24
<u>Nickel tetracarbonyl</u>	<u>Nickel carbonyl</u>	24
Nitraniline	Nitroaniline	7,27
Nitric acid		2
<u>Nitroaniline</u>	<u>Nitraniline</u>	7,27
Nitrobenzene	Nitrobenzol	27
Nitrobiphenyl	4-NBP	27
<u>Nitrogen dioxide</u>		104
Nitromannite	Mannitol hexanitrate	27,102
Nitrogen mustard		7,17
<u>Nitrogen tetroxide</u>		104
Nitroglycerin	Trinitroglycerin	27,102
Nitrohydrochloric acid		2
<u>Nitrophenol</u>		27,31
Nitropropane		27
Nitrosodimethylamine	Dimethylnitrosiamine	7,27
<u>Nitrosoguanidine</u>		27,102
Nitrostarch	Starch nitrate	27,102
Nitroxylene	Nitroxylol, Dimethylnitrobenzene	27
<u>Nitroxylol</u>	<u>Nitroxylene, dimethylnitrobenzene</u>	27
N-Nitrosodimethylamine	Dimethylnitrosoamine	7,27
Nonyl phenol		31
<u>Nonyl trichlorosilane</u>		107
Nonane		29
Nonene		28

<u>Nonanone</u>		19
Nonanal		5
Nonanol		4
<u>Octadecyl trichlorosilane</u>		107
Octadecyne		28
Ocamethylpyrophosphoramidate	Schradan	6,32
<u>Octanal</u>		5
Octane		29
Octanone		19
<u>Octanol</u>		4
Octene		28
Octyl peroxide	Caprylyl peroxide	30
<u>Octyl trichlorosilane</u>		107
Oil of bergamot		101
Oil of vitriol	Sulfuric acid	1
<u>Oleum</u>	Sulfuric acid	2,24
Orris root		101
Orthozenol	o-Phenyl phenol	31
<u>Osmium</u>		23,24
Osmium amine nitrate		24, 104
Osmium amine perchlorate		24, 104
<u>Oxamyl</u>		9
Oxalic acid		3
Oxygen difluoride		104,107
<u>PCB</u>	Polychlorinated biphenyl	17
Paper		101
Paraoxon	Mintacol*	32
<u>Parathion</u>		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
Phenyl hydrazine hydrochloride		8
o-Phenyl phenol	Orthozenol, Dowicide 1	31



Phenyl trichlorosilane		107
Phenyl valerylnitrile		26
<u>Phenylpropane</u>	<u>Propylbenzene</u>	16
Phloroglucinol		31
Phorate	Thimet*	32
<u>Phosdrin*</u>	<u>Mevinphos</u>	32
Phosphamidon	Dimecron*	32
Phosphine	Hydrogen phosphide	105
<u>Phospholan</u>	<u>Cyolan*</u>	20,32
Phosphonium iodide		105,107
Phosphoric acid		1
<u>Phosphoric anhydride</u>	<u>Phosphorus pentoxide</u>	107
Phosphoric sulfide	Phosphorus pentasulfide	33, 105, 107
Phosphorus (Amorphous red)		105,107
<u>Phosphorus(White-Yellow)</u>		105
Phosphorus heptasulfide		33, 105
Phosphorus oxybromide	Phosphoryl bromide	104,107
<u>Phosphorus oxychloride</u>	<u>Phosphoryl chloride</u>	104,107
Phosphorus pentachloride	Phosphoric chloride	107
Phosphorus pentasulfide	Phosphoric sulfide	33,105, 107
<u>Phosphorus pentoxide</u>	<u>Phosphoric anhydride</u>	107
Phosphorus sesquisulfide	Tetraphosphorus trisulfide	33, 105,107
Phosphorus tribromide		107
<u>Phosphorus trichloride</u>		107
Phosphorus trisulfide		33, 105, 107
Phosphoryl bromide	Phosphorus oxybromide	104,107
<u>Phosphoryl chloride</u>	<u>Phosphorus oxychloride</u>	104,107
Phthalic acid		3
Picramide	Trinitroaniline	7,27,102
<u>Picric acid</u>	<u>Trinitrophenol</u>	27,31,102
Picridine		7
Picryl chloride	Chlorotrinitrobenzene	17,27,102
<u>Piperidine</u>		7
Pirimicarb		9
Polyglycol ether		14
<u>Polyamide resin</u>		101

Polybrominated biphenyl		17
Polybutene		28
Polychlorinated biphenyls	PCB, Askarel, Arochlor*	
	Chlorextol, Inerteen	17
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Polychlorinated triphenyls		17
Polyethylene		101
<u>Polyester resin</u>		101
Polymeric oil		101
Polyphenyl polymethylisocyanate		18,107
<u>Polypropylene</u>		28,101
Polyram combi*	PETD	121
Polysulfide polymer		20,101
<u>Polystyrene</u>		101
Polyurethane		101
Polyvinyl acetate		101
<u>Polyvinyl chloride</u>		101
Polyvinyl nitrate		27,102
Potasan		32
<u>Potassium</u>		21, 107
Potassium acid fluoride	Potassium fluoride	15
Potassium aluminate		10
<u>Potassium arsenate</u>		24
Potassium arsenite		24
Potassium bifluoride	Potassium fluoride	15
<u>Potassium bichromate</u>	Potassium dichromate	24, 104
Potassium bromate		104
Potassium butoxide		10
<u>Potassium cyanide</u>		11
Potassium dichloroisocyanurate		104
Potassium dichromate	Potassium bichromate	24, 104
<u>Potassium dinitrobenzfuroxan</u>		27,102
Potassium fluoride	Potassium acid fluoride	15
Potassium hydride		105, 107
<u>Potassium hydroxide</u>	Caustic potash	10
Potassium nitrate	Saltpeter	102,104
Potassium nitride		25

<u>Potassium nitrite</u>		104
Potassium oxide		107
Potassium perchlorate		104
<u>Potassium permanganate</u>		24, 104
Potassium peroxide		104,107
Potassium sulfide		33, 105
<u>Promecarb</u>		9
Propanal	Propionaldehyde	5
Propane		29
<u>Propanethiol</u>	<u>Propyl mercaptan</u>	20
Propanoic acid	Propionic acid	3
Propanol	Propyl alcohol	4
<u>Propargyl bromide</u>		17
Propargyl chloride		17
2-Propen-1-ol	Allyl alcohol	4
<u>Propioactone</u>		13
Propionaldehyde	Propanal	5
Propionamide		6
<u>Propionic acid</u>	<u>Propanoic acid</u>	3
Propionitrile		26
Propyl acetate		13
<u>Propyl alcohol</u>	<u>Propanol</u>	4
Propylamine		7
Propyl benzene	Phenyl propane	16
<u>Propylene dichloride</u>	<u>Dichloropropane</u>	17
Propylene glycol		4
Propylene glycol monomethyl ether		4,14
<u>Propylene oxide</u>		34, 103
Propyleneimine	Methyl aziridine	7
Propyl ether		14
<u>Propyl formate</u>		13
Propyl mercaptan	Propanethiol	20
Propyl Trichlorosilane		107
<u>Prothoate</u>	<u>Fostion*</u>	32
Pseudocumene	1,2,4-trimethylbenzene	16
Pyridine		7

Pyrogallol		31
Pyrosulfuryl chloride	Disulfuryl chloride	107
Pyroxylin	Collodion	27
Quinone	Benzoquinone	19
Raney nickel		22
RDX	Cyclotrimethylene trinitramine	27, 102
Refuse	Municipal solid waste	101
Resins		101
Resorcinol		31
Rubidium		21
Salicylated mercury	Mercuric salicylate	24
Saligenin		31
Saltpeter	Potassium nitrate	102,104
Schradan	Octamethyl pyrophosphoramide, OMPA	6,32
Selenious acid	Selenous acid	1,24
Selenium		22,23,24
Selenium diethyldithiocarbamate		12, 24
Selenium fluoride		15, 24
Selenous acid	Selenious acid	1,24
Silicochloroform	Trichlorosilane	107
Silicon tetrachloride		107
Silicon tetrafluoride		15, 107
Silver acetylide		24,102,105,107
Silver azide		24, 102
Silver cyanide		11, 24
Silver nitrate		24,104
Silver nitride		24, 25,102
Silver styphnate	Silver trinitroresorcinate	24,27,102
Silver sulfide		24,33,105
Silver tetrazene		24,102
Silver trinitroresorcinate	Silver styphnate	24,27,102
Slaked lime	Calcium oxide	10,107
Smokeless powder		102
Sodamide	Sodium amide	10,107
Soda niter	Sodium nitrate	104

Sodium		21,105,107
<u>Sodium acid fluoride</u>	<u>Sodium fluoride</u>	15
Sodium aluminate		10,105
Sodium aluminum hydride		105,107
<u>Sodium amide</u>	<u>Sodamide</u>	10,107
Sodium arsenate		24
Sodium arsenite		24
<u>Sodium azide</u>		102
Sodium bichromate	Sodium dichromate	24, 104
Sodium bifluoride	Sodium fluoride	15
<u>Sodium bromate</u>		104
Sodium cacodylate	Sodium dimethylaarsenate	24
Sodium carbonate		10
<u>Sodium carbonate peroxide</u>		104
Sodium chlorate		104
Sodium chlorite		104
<u>Sodium chromate</u>		24
Sodium cyanide		11
Sodium dichloroisocyanurate		104
<u>Sodium dichromate</u>	<u>Sodium bichromate</u>	24,104
Sodium dimethylarsenate	Sodium cacodylate	24
Sodium fluoride	Sodium acid fluoride	15
<u>Sodium hydride</u>		105,107
Sodium hydroxide	Caustic soda, Lye	10
Sodium hypochlorite		10,104
<u>Sodium hyposulfite</u>	<u>Sodium thiosulfate</u>	105
Sodium methylate	Sodium methoxide	10,107
Sodium methoxide	Sodium methylate	10,107
<u>Sodium molybdate</u>		24
Sodium monoxide	Sodium oxide	10,107
Sodium nitrate	Soda niter	104
<u>Sodium nitride</u>		25
Sodium nitrite		104
Sodium oxide	Sodium monoxide	10,107
<u>Sodium pentachlorophenate</u>		31
Sodium perchlorate		104

Sodium permanganate		24, 104
<u>Sodium peroxide</u>		104, 107
Sodium phenolsulfonate		31
Sodium picramate		27, 102
<u>Sodium polysulfide</u>		101
Sodium potassium alloy	Nak, Nack	21, 107
Sodium selenate		24
<u>Sodium sulfide</u>		24, 33, 105
Sodium thiosulfate		105
Stannic chloride	Tin tetrachloride	24, 107
<u>Stannic sulfide</u>		33, 105
Starch nitrate	Nitrostarch	27, 102
Stilbene	Diphenyl ethylene	16
<u>Stoddard solvent</u>		101
Strontium		24
Strontium arsenate		24
<u>Strontium dioxide</u>	Strontium peroxide	24, 104
Strontium monosulfide		24, 33, 105
Strontium nitrate		24, 104
<u>Strontium peroxide</u>	Strontium dioxide	104
Strontium tetrasulfide		24, 33, 105
Styphnic acid	Trinitroresorcinol	27, 31, 102
<u>Styrene</u>	Vinylbenzene	16, 28, 103
Succinic acid		3
Succinic acid peroxide		30
<u>Sulfonyl chloride</u>	Sulfuryl chloride	107
Sulfonyl fluoride		107
Sulfotepp	Dithione*, Blada-Fum*	32
<u>Sulfur chloride</u>	Sulfur monochloride	107
Sulfur (elemental)		101
Sulfuric acid	Oil of Vitriol, Oleum	2, 107
<u>Sulfuric anhydride</u>	Sulfur trioxide	104, 107
Sulfur monochloride	Sulfur chloride	107
Sulfur mustard		20
<u>Sulfur oxychloride</u>	Thionyl chloride	107
Sulfur pentafluoride		15, 107

Sulfur trioxide	Sulfuric anhydride	104,107
<u>Sulfuryl chloride</u>	<u>Sulfonyl chloride</u>	<u>107</u>
Sulfuryl fluoride	Sulfonyl fluoride	107
Supracide*	Ultracide*	32
<u>Surecide*</u>	<u>Cyanophenphos</u>	<u>32</u>
Synthetic rubber		101
TCDD	Tetrachlorodibenzo-p-dioxin	14,17
<u>TEDP</u>	<u>Tetraethyl dithionopyrophosphate</u>	<u>32</u>
TEL	Tetraethyl lead	24
TEPA	Tris-(1-aziridiny) phosphine oxide	6, 32
<u>TEPP</u>	<u>Tetraethyl pyrophosphate</u>	<u>32</u>
THF	Tetrahydrofuran	14
TMA	Trimethylamine	7
<u>TML</u>	<u>Tetramethyl lead</u>	<u>24</u>
TNB	Trinitrobenzene	27,102
TNT	Trinitrotoluene	27,102
<u>Tall oil</u>		<u>101</u>
Tallow		101
Tar		101
<u>Tellurium hexafluoride</u>		<u>15, 24</u>
Temik*	Aldicarb	9,20
Tetraborane		105
<u>Tetrachlorodibenzo-p-dioxin</u>	<u>TCDD</u>	<u>14,17</u>
Tetrachloroethane		17
Tetrachloroethylene	Perchloroethylene	17
<u>Tetrachloromethane</u>	<u>Carbon tetrachloride</u>	<u>17</u>
Tetrachlorophenol		17,31
Tetrachloropropyl ether		14, 17
<u>Tetradecene</u>		<u>28</u>
Tetraethyl dithionopyrophosphate	TEDP	32
Tetraethyl lead	TEL	24
<u>Tetraethyl pyrophosphate</u>	<u>TEPP</u>	<u>32</u>
Tetrahydrofuran	THF	14
Tetramethylenediamine		7
<u>Tetramethyl lead</u>	<u>TML</u>	<u>24</u>
Tetrmethyl succinonitrile		26

Tetranitromethane		27,102
<u>Tetraphenyl ethylene</u>		16
Tetraphosphorus trisulfide	Phosphorus sesquisulfide	33, 105,107
Tetraselenium tetranitride		24, 25, 102
<u>Tetrasul</u>	Animert* V-101	20
Tetrasulfur tetranitride		25, 102
Tetrazene		8,102
<u>Thallium</u>		24
Thallium nitride		24,25,102
Thallium sulfide		24,33, 105
<u>Thalious sulfate</u>		24
Thimet*	Phorate	32
Thionyl chloride	Sulfur oxychloride	107
<u>Thiocarbonyl chloride</u>	Thiophosgene	107
Thiodan*	Endosulfan	17,20
Thionazin	Zinophos*	32
<u>Thionyl chloride</u>	Sulfur oxychloride	107
Thiophosgene	Thiocarbonyl chloride	107
Thiophosphoryl chloride		107
<u>Thiram</u>		12
Thorium		22,23,24
Tin tetrachloride	Stannic chloride	24, 107
<u>Tannic chloride</u>	Titanium tetrachloride	24, 107
Titanium		22,23,24
Titanium sesquisulfide		24,33,105
<u>Titanium sulfate</u>		24
Titanium sulfide		24,33,105
Titanium tetrachloride	Titanic chloride	24, 107
<u>TMA</u>	Trimethylamine	7
TNB	Trinitrobenzene	27,102
TNT	Trinitrotoluene	27,102
<u>Tolualdehyde</u>		5
Toluene	Toluol, Methylbenzene	16
Toluene diisocyanate		18,107
<u>Toluic acid</u>		3
Toluidine	Aminotoluene	7



Toluol	Toluene, Methylbenzene	16
Topcide*	Benzadox	6
Tranid*		9,26
Triamphos	Wepsyn* 155	6,32
Tribromomethane	Bromoform	17
Tri-n-butylaluminum		107
Tricadmium dinitride		24,25
Tricalcium dinitride		25
Tricesium nitride		24,25
Trichloroacetaldehyde	Chloral hydrate	5,17
Trichloroborane		107
Trichloroethane		17
Trichloroethene	Trichloroethylene	17
Trichloroisocyanuric acid		104
Trichloromethane	Chloroform	17
Trichloromethyl sulfenyl chloride	Perchloromethyl mercaptan	17,20
Trichloronitromethane	Chloropicrin	17,27,102
Trichlorophenoxyacetic acid		3, 17
Trichloropropane		17
Trichlorosilane	Silicochloroform	107
Tridecene		28
Triethanolamine		4,7
Triethyl aluminum		105,107
Triethyl antimony	Triethylstibine	24, 105,107
Triethyl arsine		24, 107
Triethyl bismuthine		24
Triethylamine		7
Triethylene phosphoramidate	Tris(1-aziridinyl) phosphine oxide	6,32
Triethylnet tetraamine		7
Triethyl stibine	Triethyl antimony	24, 105,107
Trifluoroethane		17
Trifluoromethylbenzene	Benzotrifluoride	17
Triisobutyl aluminum		105,107
Trilead dinitride		24,25,102
Trimercury dinitride		24,25,102

Trimethyl aluminum		105,107
Trimethylamine	TMA	7
<u>Trimethyl antimony</u>	<u>Trimethylstibine</u>	<u>24,105</u>
Trimethyl arsine		24,107
1,2,4-Trimethylbenzene	Pseudocumene	16
<u>1,3,5-Trimethylbenzene</u>	<u>Mesitylene</u>	<u>16</u>
Trimethyl bismuthine		24
Trimethyl pentane	Isooctane	29
<u>Trimethylstibine</u>	<u>Trimethyl antimony</u>	<u>24,105,107</u>
Tri-n-butyborane		105,107
Trinitroaniline	Picramide	7,27,102
<u>Trinitroanisole</u>	<u>Trinitrophenylmethyl ether</u>	<u>14,27</u>
Trinitrobenzene	TNB	27,102
Trinitrobenzoic acid		3,27,102
<u>Trinitroglycerin</u>	<u>Nitroglycerin</u>	<u>27,102</u>
Trinitronaphthalene	Naphtite	27,102
Trinitrophenol	Picric acid	27,31,102
<u>Trinitrophenyl methyl ether</u>	<u>Trinitroanisole</u>	<u>14,27</u>
Trinitroresorcinol	Styphnic acid	27,31,102
Trinitrotoluene	TNT	27,102
<u>Trioctyl aluminum</u>		<u>105,107</u>
Triphenyl ethylene		16
Triphenyl methane		16
<u>Tripropylamine</u>		<u>7</u>
Tripropyl stibine		24,107
Trisilyl arsine		24, 107
Tris-(1-aziridiny) phosphine oxide	TEPA, Triethylene phosphoramidate	6,32
Trithion		32
Trithorium tetranitride		24,25
<u>Trivinyl stibine</u>		<u>24,107</u>
Tsumacide*		9
Tungstic acid		24
<u>Tupentine</u>		<u>101</u>
UDMH	Dimethyl hydrazine	8
Ultracide*	Supracide*	32

Undecene		28
Unisolve		101
Uranium nitrate	Uranyl nitrate	24,104
<u>Uranium sulfide</u>		<u>24,33,105</u>
Uranyl nitrate	Uranium nitrate	24,104
Urea formaldehyde		5
<u>Urea nitrate</u>		<u>27,102,104</u>
VC	Vinylidene chloride	17,103
Valeraldehyde	Pentanal	5
<u>Valeramide</u>		<u>6</u>
Valeric acid		3
Vanadic acid anhydride	Vanadium pentoxide	24
<u>Vanadium oxytrichloride</u>		<u>24</u>
Vanadium pentoxide	Vanadic acid anhydride	24
Vanadium sulfate	Vanadyl sulfate	24
<u>Vanadium tetroxide</u>		<u>24</u>
Vanadium trichloride		24,107
Vanadium trioxide		24
<u>Vanadyl sulfate</u>	Vanadium sulfate	<u>24</u>
Vapona*	DDVP	32
Vinyl acetate		13,103
<u>Vinyl azide</u>		<u>102</u>
Vinylbenzene	Styrene	16,28,103
Vinyl chloride		17,103
<u>Vinyl cyanide</u>		<u>26,103</u>
Vinyl ethyl ether		14
Vinyl isopropyl ether		17
<u>Vinylidene chloride</u>	VC	<u>17,103</u>
Vinyl toluene		28,103
Vinyl trichlorosilane		107
<u>VX</u>		<u>20,32</u>
Water		106
Waxes		101
<u>Wepsyn* 155</u>	Triamiphos	<u>6,32</u>
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Zinc		22,23,24
Zinc acetylde		24,105,107
Zinc ammonium nitrate		24,104
Zinc arsenate		24
Zinc arsenite		24
Zinc chloride		24
Zinc dioxide	Zinc peroxide	24,102,104,107
Zinc ethyl	Diethyl zinc	24,105,107
Zinc cyanide		11,24
Zinc fluoborate		24,15
Zinc nitrate		24,104
Zinc permanganate		24,104
Zinc peroxide	Zinc dioxide	24,102,104,107
Zinc phosphide		24,107
Zinc salts of dimethyl dithiocarbamic acid		12,24
Zinc sulfate		24
Zinc sulfide		24,33,105
Zineb*		12,24
Zinophos*	Thioazin	20
Ziram*		12,24
Zirconium		22,23,24
Zirconium chloride	Zirconium tetrachloride	24
Zirconium picramate		24,104
Zirconium tetrachloride	Zirconium chloride	24