

Chemical Hygiene Plan Appendix A

Chemicals with a “4” rating by NFPA 49

Chemical Name	Health rating	Flammability rating	Reactivity rating	Water reactive or oxidizing
3 - Bromopropyne	3	3	4	
Acetaldehyde	3	4	2	
Acetone Cyanohydrin, stabilized	4	2	2	
Acetylene	0	4	3	
Acrolein, inhibited	4	3	3	
Acrylonitrile, inhibited	4	3	2	
Allyl alcohol	4	3	1	
Allylamine	4	3	1	
Aluminum alkyls	3	4	3	water reactive
Aluminum phosphide	4	4	2	water reactive
Ammonium perchlorate	1	0	4	oxidizing
Antimony pentafluoride	4	0	1	
Arsenic pentafluoride	4	0	1	
Arsine	4	4	2	
Boron trifluoride	4	0	1	
Bromine pentafluoride	4	0	3	water reactive, oxidizing
Bromine trifluoride	4	0	3	water reactive, oxidizing
Butadienes, inhibited	2	4	2	
Butyllithium	3	4	2	water reactive
Carbon disulfide	3	4	0	
Carbon monoxide	3	4	0	
Chlorine	4	0	0	oxidizing
Chlorine trifluoride	4	0	3	water reactive, oxidizing
Chlorodinitrobenzenes	3	1	4	
Chloropicrin	4	0	3	
Chlorosulfonic acid	4	0	2	water reactive, oxidizing
Crotonaldehyde, stabilized	4	3	2	
Cyanogen bromide	4	0	1	
Cyanogen, liquified	4	4	2	
Diborane	4	4	3	water reactive
Dichlorodimethyl ether	4	3	1	
Dichlorosilane	4	4	2	water reactive
Diethyl ether	1	4	1	
Diethyl telluride	1	4	3	water reactive
Diethylaluminum chloride	3	4	3	water reactive

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Diethylzinc	3	4	3	water reactive
Diketene, inhibited	4	2	2	
Dimethyl ether	1	4	1	
Dimethyl sulfate	4	2	0	
Dimethylamine, anhydrous	3	4	0	
Dimethylamine, solution	3	4	0	
Dimethylhydrazine, unsymmetrical	4	3	1	
Dinitrobenzenes	3	1	4	
Ethyl methyl ether	1	4	4	
Ethyl nitrite solutions	3	4	4	
Ethylamine	3	4	0	
Ethylchloroformate	4	3	1	
Ethylene chlorohydrin	4	2	0	
Ethylene oxide	3	4	3	
Ethylene, compressed	1	4	2	
Ethylenimine, inhibited	4	3	3	
Fluorine, compressed	4	0	4	water reactive
Formaldehyde, flammable	3	4	0	
Formaldehyde, solutions	3	4	0	
Germane	4	4	3	water reactive
Hydrogen cyanide, anhydrous, stabilized	4	4	2	
Hydrogen cyanide, anhydrous, stabilized, absorbed in a porous inert material	4	4	2	
Hydrogen fluoride, anhydrous	4	0	1	
Hydrogen sulfide, liquified	4	4	0	
Hydrogen, refrigerated liquid	3	4	0	
Isoprene, inhibited	1	4	2	
Isopropylamine	3	4	0	
Methyl formate	2	4	0	
Methyl isocyanate	4	3	2	water reactive
Methyl mercaptan	4	4	0	
Methyl vinyl ketone	4	3	2	
Methylamine, anhydrous	3	4	0	

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Methylamine, aqueous solution	3	4	0	
Methylhydrazine	4	3	2	
Natural gas, liquified	3	4	0	
Nickel carbonyl	4	3	3	
Nickel catalyst	2	4	1	
Nitric acid (> 40%)	4	0	0	oxidizing
Nitric acid, fuming	4	0	1	oxidizing
Nitromethane	1	3	4	
Pentaborane	4	4	2	
Peracetic acid (<40%)	3	2	4	oxidizing
Phenol, molten	4	2	0	
Phenol, solid	4	2	0	
Phenol, solutions	4	2	0	
Phosgene	4	0	1	
Phosphorus oxychloride	4	0	2	water reactive
Phosphorus trichloride	4	0	1	water reactive
Phosphorus, white, molten	4	4	2	
Phosphine	4	4	2	
Picric acid, wet, with not less than 10% water	3	4	4	
Propargyl alcohol	4	3	3	
Propylene oxide	3	4	2	
Silane	1	4	3	
Stibine	4	4	2	
Tetrafluoroethylene, inhibited	2	4	3	
Thionyl chloride	4	0	2	water reactive
Trichlorosilane	3	4	2	water reactive
Triethylaluminum	3	4	3	water reactive
Triisobutylaluminum	3	4	3	water reactive
Trimethoxysilane	3	4	2	
Trimethylamine	3	4	0	
Vinyl acetylene	2	4	3	
Vinyl chloride, inhibited	2	4	2	
Vinyl ether	2	4	2	
Vinylidene chloride, inhibited	4	4	2	