

**APPENDIX C**  
**Department of Homeland Security “Chemicals of Interest”**

Acetaldehyde	Bromine chloride	Cyanogen chloride	Ethyl ether
Acetone cyanohydrin, stabilized	Bromine pentafluoride	Cyclohexylamine	Ethyl mercaptan
Acetyl bromide	Bromine trifluoride	Cyclohexyltrichlorosilane	Ethyl nitrite
Acetyl chloride	Bromotrifluoroethylene	Cyclopropane	Ethyl phosphonyl difluoride
Acetyl iodide	1,3-Butadiene	DF	Ethylamine
Acetylene	Butane	Diazodinitrophenol	Ethyldiethanolamine
Acrolein	Butene	Diborane	Ethylene
Acrylonitrile	1-Butene	Dichlorosilane	Ethylene oxide
Acrylyl chloride	2-Butene	N,N-(2-diethylamino)ethanethiol	Ethylenediamine
Allyl alcohol	2-Butene-cis	Diethyldichlorosilane	Ethyleneimine
Allylamine	2-Butene-trans	o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate	Ethylphosphonothioic dichloride
Allyltrichlorosilane, stabilized	Butyltrichlorosilane	Diethyleneglycol dinitrate	Ethyltrichlorosilane
Aluminum (powder)	Calcium hydrosulfite	Diethyl methylphosphonite	Fluorine
Aluminum bromide, anhydrous	Calcium phosphide	N,N-Diethyl phosphoramidic dichloride	Fluorosulfonic acid
Aluminum chloride, anhydrous	Carbon disulfide	N,N-(2-diisopropylamino)ethanethiol	Formaldehyde (solution)
Aluminum phosphide	Carbon oxysulfide	Difluoroethane	Furan
Ammonia (anhydrous)	Carbonyl fluoride	N,N-Diisopropyl phosphoramidic dichloride	Germane
Ammonia (conc. 20% or greater)	Carbonyl sulfide	1,1-Dimethylhydrazine	Germanium tetrafluoride
Ammonium nitrate	Chlorine	Dimethylamine	Guanyl nitrosaminoguanylidene hydrazine
Ammonium nitrate, solid	Chlorine dioxide	N,N-(2-dimethylamino)ethanethiol	Hexaethyl tetraphosphate
Ammonium perchlorate	Chlorine monoxide	Dimethyldichlorosilane	Hexafluoroacetone
Ammonium picrate	Chlorine pentafluoride	N,N-Dimethyl phosphoramidic dichloride	Hexanitrostilbene
Amyltrichlorosilane	Chlorine trifluoride	2,2-Dimethylpropane	Hexolite
Antimony pentafluoride	Chloroacetyl chloride	Dingu	Hexyltrichlorosilane
Arsenic trichloride	2-Chloroethylchloromethylsulfide	Dinitrogen tetroxide	HMX
Arsine	Chloroform	Dinitrophenol	HN1 (nitrogen mustard-1)
Barium azide	Chloromethyl ether	Dinitroresorcinol	HN2 (nitrogen mustard-2)
1,4-Bis(2-chloroethylthio)-n-butane	Chloromethyl methyl ether	Diphenyldichlorosilane	HN3 (nitrogen mustard-3)
Bis(2-chloroethylthio)methane	1-Chloropropylene	Dipicryl sulfide	Hydrazine
Bis(2-chloroethylthiomethyl)ether	2-Chloropropylene	Dipicrylamine [or] Hexyl	Hydrochloric acid (conc. 37% or greater)
1,5-Bis(2-chloroethylthio)-n-pentane	Chlorosarin	N,N-(2-dipropylamino)ethanethiol	Hydrocyanic acid
1,3-Bis(2-chloroethylthio)-n-propane	Chlorosoman	N,N-Dipropyl phosphoramidic dichloride	Hydrofluoric acid (conc. 50% or greater)
Boron tribromide	Chlorosulfonic acid	Dodecyltrichlorosilane	Hydrogen
Boron trichloride	Chromium oxychloride	Epichlorohydrin	Hydrogen bromide (anhydrous)
Boron trifluoride	Crotonaldehyde	Ethane	Hydrogen chloride (anhydrous)
Boron trifluoride w/methyl ether (1:1)	Crotonaldehyde, (E)-	Ethyl acetylene	Hydrogen cyanide
Bromine	Cyanogen	Ethyl chloride	Hydrogen fluoride (anhydrous)

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Hydrogen iodide, anhydrous	Methyl mercaptan	Pentolite	Selenium hexafluoride	Trifluorochloroethylene
Hydrogen peroxide	Methyl thiocyanate	Peracetic acid	Sesquimustard	Trimethylamine
Hydrogen selenide	Methylamine	Perchloromethylmercaptan	Silane	Trimethylchlorosilane
Hydrogen sulfide	Methylchlorosilane	Perchloryl fluoride	Silicon tetrachloride	Trimethyl phosphite
Iodine pentafluoride	Methyldichlorosilane	PETN	Silicon tetrafluoride	Trinitroaniline
Iron, pentacarbonyl-	Methylphenyldichlorosilane	Phenyltrichlorosilane	Sodium azide	Trinitroanisole
Isobutane	Methylphosphonothioic dichloride	Phosgene	Sodium chlorate	Trinitrobenzene
Isobutyronitrile	2-Methylpropene	Phosphine	Sodium cyanide	Trinitrobenzenesulfonic acid
Isopentane	Methyltrichlorosilane	Phosphorus	Sodium hydrosulfite	Trinitrobenzoic acid
Isoprene	Sulfur mustard (Mustard gas (H))	Phosphorus oxychloride	Sodium nitrate	Trinitrochlorobenzene
Isopropyl chloride	O-Mustard (T)	Phosphorus pentabromide	Sodium phosphide	Trinitrofluorenone
Isopropyl chloroformate	Nickel Carbonyl	Phosphorus pentachloride	Soman	Trinitro-meta-cresol
Isopropylamine	Nitric acid	Phosphorus pentasulfide	Stibine	Trinitronaphthalene
Isopropylphosphonothioic dichloride	Nitric oxide	Phosphorus trichloride	Strontium phosphide	Trinitrophenetole
Isopropylphosphonyl difluoride	Nitrobenzene	Picrite	Sulfur dioxide (anhydrous)	Trinitrophenol
Lead azide	5-Nitrobenzotriazol	Piperidine	Sulfur tetrafluoride	Trinitroresorcinol
Lead styphnate	Nitrocellulose	Potassium chlorate	Sulfur trioxide	Tritonal
Lewisite 1	Nitrogen mustard hydrochloride	Potassium cyanide	Sulfuryl chloride	Tungsten hexafluoride
Lewisite 2	Nitrogen trioxide	Potassium nitrate	Tabun	Vinyl acetate monomer
Lewisite 3	Nitroglycerine	Potassium perchlorate	Tellurium hexafluoride	Vinyl acetylene
Lithium amide	Nitromannite	Potassium permanganate	Tetrafluoroethylene	Vinyl chloride
Lithium nitride	Nitromethane	Potassium phosphide	Tetramethyllead	Vinyl ethyl ether
Magnesium (powder)	Nitrostarch	Propadiene	Tetramethylsilane	Vinyl fluoride
Magnesium diamide	Nitrosyl chloride	Propane	Tetranitroaniline	Vinyl methyl ether
Magnesium phosphide	Nitrotriazolone	Propionitrile	Tetranitromethane	Vinylidene chloride
MDEA	Nonyltrichlorosilane	Propyl chloroformate	Tetrazene	Vinylidene fluoride
Mercury fulminate	Octadecyltrichlorosilane	Propylene	1H-Tetrazole	Vinyltrichlorosilane
Methacrylonitrile	Octolite	Propylene oxide	Thiodiglycol	VX
Methane	Octonal	Propyleneimine	Thionyl chloride	Zinc hydrosulfite
2-Methyl-1-butene	Octyltrichlorosilane	Propylphosphonothioic dichloride	Titanium tetrachloride	
3-Methyl-1-butene	Oleum (Fuming Sulfuric acid)	Propylphosphonyl difluoride	TNT	
Methyl chloride	Oxygen difluoride	Propyltrichlorosilane	Torpex	
Methyl chloroformate	1,3-Pentadiene	Propyne	Trichlorosilane	
Methyl ether	Pentane	QL	Triethanolamine	
Methyl formate	1- Pentene	RDX	Triethanolamine hydrochloride	
Methyl hydrazine	2-Pentene, (E)-	RDX and HMX mixtures	Triethyl phosphite	
Methyl isocyanate	2-Pentene, (Z)-	Sarin	Trifluoroacetyl chloride	