

DEPARTMENT OF HOMELAND SECURITY (DHS)

APPENDIX A

CHEMICALS OF INTEREST (COI)

Acetaldehyde	Bromine trifluoride
Acetone Cyanohydrin, stabilized	Bromotrifluoroethylene
Acetyl bromide	1,3-Butadiene
Acetyl chloride	Butane
Acetyl iodide	Butene
Acetylene	1-Butene
Acrolein	2-Butene
Acrylonitrile	2-Butene-cis
Acrylyl chloride	2-Butene-trans
Allyl alcohol	Butyltrichlorosilane
Allylamine	Calcium hydrosulfite
Allyltrichlorosilane, stabilized	Calcium phosphide
Aluminum (powder)	Carbon disulfide
Aluminum Bromide, anhydrous	Carbon oxysulfide
Aluminum Chloride, anhydrous	Carbonyl fluoride
Aluminum phosphide	Carbonyl sulfide
Ammonia (anhydrous)	Chlorine
Ammonia (conc 20% or greater)	Chlorine dioxide
Ammonium nitrate, note #1	Chlorine monoxide
Ammonium nitrate, note #2	Chlorine pentafluoride
Ammonium perchlorate	Chlorine trifluoride
Ammonium picrate	Chloroacetyl chloride
Amyltrichlorosilane	2-Chloroethylchloro-methylsulfide
Antimony pentafluoride	Chloroform
Arsenic trichloride	Chloromethyl ether
Arsine	Chloromethyl methyl ether
Barium azide	1-Chloropropylene
1,4-Bis(2-chloroethylthio)-n-butane	2-Chloropropylene
Bis(2-chloroethylthio) methane	Chlorosarin
Bis(2-chloroethylthiomethyl)ether	Chlorosoman
1,5-Bis(2-chloroethylthio)-n-pentane	Chlorosulfonic acid
1,3-Bis(2-chloroethylthio)-n-propane	Chromium oxychloride
Boron tribromide	Crotonaldehyde
Boron trichloride	Crotonaldehyde, (E)-
Boron trifluoride	Cyanogen
Boron trifluoride compound with methyl ether (1:1)	Cyanogen chloride
Bromine	Cyclohexylamine
Bromine chloride	Cyclohexyltrichlorosilane
Bromine pentafluoride	Cyclopropane
	DF

Diazodinitrophenol	Ethyltrichlorosilane
Diborane	Fluorine
Dichlorosilane	Fluorosulfonic acid
N,N-(2-diethylamino)ethanethiol	Formaldehyde (solution)
Diethyldichlorosilane	Furan
o,o-Diethyl S-(2-(diethylamino)ethyl)- phosphorothiolate	Germane
Diethyleneglycol dinitrate	Germanium tetrafluoride
Diethyl methylphosphonite	Guanyl nitrosaminoguanylidene hydrazine
N,N-Diethyl phosphoramidic dichloride	Hexaethyl tetraphosphate and compressed- gas mixtures
N,N-(2-diisopropylamino)ethanethiol	Hexafluoracetone
Difluoroethane	Hezanitrostilbene
N,N-Diisopropyl phosphoramidic di-chloride	Hexolite
1,1-Dimethylhydrazine	Hexyltrichlorosilane
Dimethylamine	HMX
N,N-(2-dimethylamono)ethanethiol	HN1 (nitrogen mustard -1)
Dimethyldichlorosilane	HN2 (nitrogen mustard-2)
N,N-Dimethyl phosphoramidic dichloride	HN3 (nitrogen mustard -3)
2,2-Dimethylpropane	Hydrazine
Dingu	Hydrochloric acid (Conc 37% or- greater)
Dinitrogen tetroxide	Hydrocyanic acid
Dinitrophenol	Hydrofluoric acid (50% or greater)
Dinitroresorcinol	Hydrogen
Diphenyldichlorosilane	Hydrogen bromide (anhydrous)
Dipicryl sulfide	Hydrogen chloride (anhydrous)
Dipicrylamine (or)Hexyl	Hydrogen cyanide
N,N-(2-dipropylamino)ethanethiol	Hydrogen fluoride (anhydrous)
N,N-Dipropyl phosphoramidic dichloride	Hydrogen iodide, anhydrous
Dodecyltrichlorosilane	Hydrogen peroxide (Conc of at least 35%)
Epichlorohydrin	Hydrogen selenide
Ethane	Hydrogen sulfide
Ethyl acetylene	Iodine Pentafluoride
Ethyl chloride	Iron, pentacarbonyl-
Ethyl ether	Isobutane
Ethyl mercaptan	Isobutyronitrile
Ethyl nitrite	Isopentane
Ethyl phosphonily difluoride	Isoprene
Ethylamine	Isopropyl chloride
Ethyldiethanolamine	Isopropyl chloroformate
Ethylene	Isopropylamine
Ethylene oxide	Isopropylphosphonothioic dichloride
Ethylenediamine	Isopropylphosphonyl difluoride
Ethyleneimine	Lead azide
Ethylphosphonothioic dichloride	Lead styphnate

Lewisite 1
Lewisite 2
Lewisite3
Lithium amide
Lithium nitride
Magnesium (powder)
Magnesium diamide
Magnesium phosphide
MDEA
Mercury fulminate
Methacrylonitrile
Methane
2-Methyl-1-butene
3-Methyl-1-butene
Methyl chloride
Methyl chloroformate
Methyl ether
Methyl formate
Methyl hydrazine
Methyl isocyanate
Methyl mercaptan
Methyl thiocyanate
Methylamine
Methylchlorosilane
Methyldichlorosilane
Methylphenyldichlorosilane
Methylphosphonothioic dichloride
2-Methylpropene
Methyltrichlorosilane
Sulfur mustard (Mustard Gas)
O-Mustard (T)
Nickel Carbonyl
Nitric acid
Nitric oxide
Nitrobenzene
5-Nitrobenzotriazol
Nitrocellulose
Nitrogen mustard hydrochloride
Nitrogen trioxide
Nitroglycerine
Nitromannite
Nitromethane
Nitrostarch
Nitrosyl chloride

Nitrotriazolone
Nonyltrichlorosilane
Octadecyltrichlorosilane
Otolite
Octonal
Octyltrichlorosilane
Oleum (Fuming Sulfuric Acid)
Oxygen difluoride
1,3-Pentadiene
Pentane
1-Pentene
2-Pentene, (E)-
2-Pentene, (Z)-
Pentolite
Peracetic acid
Perchloromethylmercaptan
Perchloryl fluoride
PETN
Phenyltrichlorosilane
Phosgene
Phosphine
Phosphorus
Phosphorus oxychloride
Phosphorus pentabromide
Phosphorus pentachloride
Phosphorus pentasulfide
Phosphorus trichloride
Picrite
Piperidine
Potassium chlorate
Potassium cyanide
Potassium nitrate
Potassium perchlorate
Potassium permanganate
Potassium phosphide
Propadiene
Propane
Propionitrile
Propyl chloroformate
Propylene
Propylene oxide
Propyleneimine
Propylphosphonothioic dichloride
Propylphosphonyl difluoride

Propyltrichlorosilane
Propyne
QL
RDX
RDX and HMX mixtures
Sarin
Selenium Hexafluoride
Sesquimustard
Silane
Silicon tetrachloride
Silicon tetrafluoride
Sodium azide
Sodium chlorate
Sodium cyanide
Sodium hydrosulfite
Sodium nitrate
Sodium phosphide
Soman
Stibine
Strontium phosphide
Sulfur dioxide (anhydrous)
Sulfur tetrafluoride
Sulfur trioxide
Sulfuryl chloride
Tabun
Tellurium hexafluoride
Tetrafluoroethylene
Tetramethyllead
Tetramethylsilane
Tetranitroaniline
Tetranitromethane
Tetrazene
1 H-Tetrazole
Thiodiglycol
Thionyl chloride
Titanium tetrachloride

TNT
Torpex
Trichlorosilane
Triethanolamine
Triethanolamine hydrochloride
Triethyl phosphate
Trifluoroacetyl chloride
Trifluorochloroethylene
Trimethylamine
Trimethylchlorosilane
Trimethyl phosphite
Trinitroaniline
Trinitroanisole
Trinitrobenzene
Trinitrobenzenesulfonic acid
Trinitrobenzoic acid
Trinitrochlorobenzene
Trinitrofluorenone
Trinitro-meta-cresol
Trinitronaphthalene
Trinitrophenetole
Trinitrophenol
Trinitroresorcinol
Tritonal
Tungsten hexafluoride
Vinyl acetate monomer
Vinyl acetylene
Vinyl chloride
Vinyl ethyl ether
Vinyl fluoride
Vinyl methy ether
Vinylidene chloride
Vinylidene fluoride
Vinyltrichlorosilane
VX
Zinc hydrosulfite