

Nitrosyl chloride
Nitrotriazolone
Nonyltrichlorosilane
Octadecyltrichlorosilane
Octolite
Octonal
Octyltrichlorosilane
Oleum (Fuming Sulfuric acid)
Oxygen difluoride
1,3-Pentadiene
Pentane
1- Pentene
2-Pentene, (E)-
2-Pentene, (Z)-
Pentolite
Peracetic acid [Ethaneperoxy acid]
Perchloromethylmercaptan [Methanesulfonyl chloride, trichloro-]
Perchloryl fluoride
PETN [Pentaerythritol tetranitrate]
Phenyltrichlorosilane
Phosgene [Carbonic dichloride] or [carbonyl dichloride]
Phosphine
Phosphorus
Phosphorus oxychloride [Phosphoryl chloride]
Phosphorus pentabromide
Phosphorus pentachloride
Phosphorus pentasulfide
Phosphorus trichloride
Picrite [Nitroguanide]
Piperidine
Potassium chlorate
Potassium cyanide
Potassium nitrate
Potassium perchlorate
Potassium permanganate
Potassium phosphide
Propadiene [1,2-Propadiene]
Propane
Propionitrile [Propanenitrile]
Propyl chloroformate [Carbonchloridic acid, propylester]
Propylene [1-Propene]
Propylene oxide [Oxirane, methyl-]
Propyleneimine [Aziridine, 2-methyl]
Propylphosphonothioic dichloride
Propylphosphonyl difluoride
Propyltrichlorosilane
Propyne [1-Propyne]
QL [o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]
RDX [Cyclotrimethylenetrinitramine]
RDX and HMX mixtures
Sarin [o-Isopropyl methylphosphonofluoridate]
Selenium hexafluoride
Sesquimustard [1,2-Bis(2-chloroethylthio)ethane]
Silane
Silicon tetrachloride
Silicon tetrafluoride
Sodium azide
Sodium chlorate
Sodium cyanide
Sodium hydrosulfite [Sodium dithionite]
Sodium nitrate
Sodium phosphide
Soman [o-Pinacolyl methylphosphonofluoridate]
Stibine
Strontium phosphide
Sulfur dioxide (anhydrous)
Sulfur tetrafluoride [Sulfur fluoride (SF4), (T-4)-]
Sulfur trioxide

Sulfuryl chloride
Tabun [o-Ethyl-N-N-dimethylphosphoramido-cyanidate]
Tellurium hexafluoride
Tetrafluoroethylene [Ethene, tetrafluoro]
Tetramethyllead [Plumbane, tetramethyl-]
Tetramethylsilane [Silane, tetramethyl-]
Tetranitroaniline
Tetranitromethane [Methane, tetranitro-]
Tetrazene [Guanyl nitrosaminoguanyltetrazene]
1-H Tetrazole
Thiodiglycol [Bis(2-hydroxyethyl)sulfide]
Thionyl chloride
Titanium tetrachloride [Titanium chloride (TiCl4) (T-4)-]
TNT [Trinitrotoluene]
Torpex [Hexotonal]
Trichlorosilane [Silane, trichloro-]
Triethanolamine
Triethanolamine hydrochloride
Triethyl phosphite
Trifluoroacetyl chloride
Trifluorochloroethylene [Ethene, chlorotrifluoro] Trimethylamine
[Methanamine, N,N-dimethyl-] Trimethylchlorosilane [Silane, chlorotrimethyl-]
Trimethyl phosphite
Trinitroaniline
Trinitroanisole
Trinitrobenzene
Trinitrobenzenesulfonic acid
Trinitrobenzoic acid
Trinitrochlorobenzene
Trinitrofluorenone
Trinitro-meta-cresol
Trinitronaphthalene
Trinitrophenetole
Trinitrophenol
Trinitroresorcinol
Tritonal
Tungsten hexafluoride
Vinyl acetate monomer [Acetic acid ethynyl ester]
Vinyl acetylene [1-Buten-3-yne]
Vinyl chloride [Ethene, chloro-]
Vinyl ethyl ether [Ethene, ethoxy-]
Vinyl fluoride [Ethene, fluoro]
Vinyl methyl ether [Ethene, methoxy-]
Vinylidene chloride [Ethene, 1,1-dichloro]
Vinylidene fluoride [Ethene, 1,1-difluoro]
Vinyltrichlorosilane
VX[o-Ethyl-S-2-diisopropylaminoethylmethyl phosphonothiolate]
Zinc hydrosulfide [Zinc dithionite]

For more information, contact the CFATS Help Desk
1-866-323-2957 or csat@dhs.gov

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Chemicals of Interest (COI) Listed in Appendix A

Chemical Facility Anti-Terrorism Standards (CFATS)

Securing America's Highest-Risk Chemical Infrastructure

December 2017

A facility must report to DHS any possession of Appendix A chemicals of interest at or above the screening threshold quantity (STQ). To get started, visit www.dhs.gov/publication/appendix-final-rule to view Appendix A.

Disclaimer: The information presented in this brochure is intended as a compliance assistance tool only, and is not a substitute for Appendix A of the CFATS regulation (6 CFR part 27). For a complete understanding of all legal requirements of the CFATS program, please refer to the applicable federal statutes and regulations, which are available at www.dhs.gov/chemical-security-laws-and-regulations



Homeland Security

Acetaldehyde
Acetone cyanohydrin, stabilized
Acetyl bromide
Acetyl chloride
Acetyl iodide
Acetylene [Ethyne]
Acrolein [2-Propenal] or Acrylaldehyde
Acrylonitrile [2-Propenenitrile]
Acrylyl chloride [2-Propenoyl chloride]
Allyl alcohol [2-Propen-1-ol]
Allylamine [2-Propen-1-amine]
Allyltrichlorosilane, stabilized
Aluminum (powder)
Aluminum bromide, anhydrous
Aluminum chloride, anhydrous
Aluminum phosphide
Ammonia (anhydrous)
Ammonia (conc. 20% or greater)
Ammonium nitrate
Ammonium nitrate, solid
Ammonium perchlorate
Ammonium picrate
Amyltrichlorosilane
Antimony pentafluoride
Arsenic trichloride [Arsenous trichloride]
Arsine
Barium azide
1,4-Bis(2-chloroethylthio)- n-butane
Bis(2- chloroethylthio)methane
Bis(2- chloroethylthiomethyl)ether
1,5-Bis(2-chloroethylthio)- n-pentane
1,3-Bis(2-chloroethylthio)- n-propane
Boron tribromide
Boron trichloride [Borane, trichloro]
Boron trifluoride [Borane, trifluoro]
Boron trifluoride compound with methyl ether (1:1)
Bromine
Bromine chloride
Bromine pentafluoride
Bromine trifluoride
Bromotrifluoroethylene [Ethene, bromotrifluoro]
1,3-Butadiene
Butane
Butene
1-Butene
2-Butene
2-Butene-cis
2-Butene-trans [2-Butene, (E)]
Butyltrichlorosilane
Calcium hydrosulfite [Calcium dithionite]
Calcium phosphide
Carbon disulfide
Carbon oxysulfide [Carbon oxide sulfide; carbonyl sulfide]
Carbonyl fluoride
Carbonyl sulfide
Chlorine
Chlorine dioxide [Chlorine oxide, ClO₂]
Chlorine monoxide [Chlorine oxide]
Chlorine pentafluoride
Chlorine trifluoride
Chloroacetyl chloride
2-Chloroethylchloro-methylsulfide
Chloroform [Methane, trichloro]
Chloromethyl ether [Methane, oxybis(chloro-)]
Chloromethyl methyl ether (Methane, chloromethoxy-)
1-Chloropropylene [1-Propene, 1-chloro-]
2-Chloropropylene [1-Propene, 2-chloro-]
Chlorosarin [o-Isopropyl methylphosphonochloridate]
Chlorosoman [o-Pinacolyl methylphosphonochloridate]
Chlorosulfonic acid

Chromium oxychloride
Crotonaldehyde [2-Butenal]
Crotonaldehyde, (E)- [2 Butenal], (E)-
Cyanogen [Ethanedinitrile]
Cyanogen chloride
Cyclohexylamine [Cyclohexanamine]
Cyclohexyltrichlorosilane
Cyclopropane
DF [Methyl phosphonyl difluoride]
Diazodinitrophenol
Diborane
Dichlorosilane [Silane, dichloro-]
N,N-(2- diethylamino)ethanethiol
Diethylchlorosilane
o,o-Diethyl S-[2- (diethylamino)ethyl] phosphorothiolate
Diethyleneglycol dinitrate
Diethyl methylphosphonite
N,N-Diethyl phosphoramidic dichloride
N,N-(2-diisopropylamino)- ethanethiol [N,N-diisopropyl-(beta)-aminoethane thiol
Difluoroethane [Ethane, 1,1,-difluoro-]
N,N-Diisopropyl phosphoramidic dichloride
1,1-Dimethylhydrazine [Hydrazine, 1, 1-dimethyl-1]
Dimethylamine [Methanamine, N-methyl-]
N,N-(2- dimethylamino)ethanethiol
Dimethylchlorosilane [Silane, dichlorodimethyl-]
N,N-Dimethyl phosphoramidic dichloride
[Dimethylphosphoramido-dichloridate]
2,2-Dimethylpropane [Propane, 2,2-dimethyl-]
Dingu [Dinitroglycoluril]
Dinitrogen tetroxide
Dinitrophenol
Dinitroresorcinol
Diphenylchlorosilane
Dipicryl sulfide
Dipicrylamine [or] Hexyl [Hexanitrodiphenylamine]
N,N-(2- dipropylamino)ethanethiol
N,N-Dipropyl phosphoramidic dichloride
Dodecyltrichlorosilane
Epichlorohydrin [Oxirane,)chloromethyl]-1]
Ethane
Ethyl acetylene [1-Butyne]
Ethyl chloride [Ethane, chloro-]
Ethyl ether [Ethane, 1,1-oxybis-]
Ethyl mercaptan [Ethanethiol]
Ethyl nitrite [Nitrous acide, ethyl ester]
Ethyl phosphonyl difluoride
Ethylamine [Ethanamine]
Ethyl diethanolamine
Ethylene [Ethene]
Ethylene oxide [Oxirane]
Ethylenediamine [1,2-Ethanediamine]
Ethyleneimine [Aziridine]
Ethylphosphonothioic dichloride
Ethyltrichlorosilane
Fluorine
Fluorosulfonic acid
Formaldehyde (solution)
Furan
Germane
Germanium tetrafluoride
Guanyl nitrosaminoguanylidene hydrazine
Hexaethyl tetraphosphate and compressed gas mixtures
Hexafluoroacetone
Hexanitrostilbene
Hexolite
Hexyltrichlorosilane
HMX [Cyclotetramethylene-tetranitramine]
HN1 (nitrogen mustard-1) [Bis(2-chloroethyl)ethylamine]
HN2 (nitrogen mustard-2) [Bis(2-chloroethyl)methylamine]
HN3 (nitrogen mustard-3) [Tris(2-chloroethyl)amine]

Hydrazine
Hydrochloric acid (conc. 37% or greater)
Hydrocyanic acid
Hydrofluoric acid (conc. 50% or greater)
Hydrogen
Hydrogen bromide (anhydrous)
Hydrogen chloride (anhydrous)
Hydrogen cyanide [Hydrocyanic acid]
Hydrogen fluoride (anhydrous)
Hydrogen iodide, anhydrous
Hydrogen peroxide (concentration of at least 35%)
Hydrogen selenide
Hydrogen sulfide
Iodine pentafluoride
Iron, pentacarbonyl- [Iron carbonyl (Fe (CO)₅), (TB5-11)-]
Isobutane [Propane, 2-methyl]
Isobutyronitrile [Propanenitrile, 2-methyl-]
Isopentane [Butane, 2-methyl-]
Isoprene [1,3-Butadiene, 2-methyl-]
Isopropyl chloride [Propane, 2-chloro-]
Isopropyl chloroformate [Carbonochloridic acid, 1-methylethyl ester]
Isopropylamine [2-Propanamine]
Isopropylphosphonothioic dichloride
Isopropylphosphonyl difluoride
Lead azide
Lead styphnate [Lead trinitroresocinate]
Lewisite 1 [2-Chlorovinylchloroarsine]
Lewisite 2 [Bis(2-chlorovinyl)chloroarsine]
Lewisite 3 [Tris(2-chlorovinyl)arsine]
Lithium amide
Lithium nitride
Magnesium (powder)
Magnesium diamide
Magnesium phosphide
MDEA [Methyldiethanolamine]
Mercury fulminate
Methacrylonitrile [2-Propenitrile, 2-methyl-]
Methane
2-Methyl-1-butene
3-Methyl-1-butene
Methyl chloride [Methane, chloro-]
Methyl chloroformate [Carbonochloridic acid, methyl ester]
Methyl ether [Methane, oxybis-]
Methyl formate [Formic acid Methyl ester]
Methyl hydrazine [Hydrazine, methyl-]
Methyl isocyanate [Methane, isocyanato-]
Methyl mercaptan [Methanethiol]
Methyl thiocyanate [Thiocyanic acid, methyl ester]
Methylamine [Methanamine]
Methylchlorosilane
Methyldichlorosilane
Methylphenyldichlorosilane
Methylphosphonothioic dichloride
2-Methylpropene [1-Propene, 2-methyl-]
Methyltrichlorosilane [Silane, trichloromethyl-]
Sulfur mustard (Mustard gas (H)) [Bis(2-chloroethyl)sulfide]
O-Mustard (T) [Bis(2-chloroethylthioethyl)ether]
Nickel Carbonyl
Nitric acid
Nitric oxide [Nitrogen oxide (NO)]
Nitrobenzene
5-Nitrobenzotriazol
Nitrocellulose
Nitrogen mustard hydrochloride [Bis(2-chloroethyl)methylamine hydrochloride]
Nitrogen trioxide
Nitroglycerine
Nitromannite [Mannitol hexantrate, wetted]
Nitromethane
Nitrostarch