

Chemicals of Interest (COI) Inventory

Principal Investigator:	Department:	Building:	Room:	Date Complete:
I have no Chemicals in this room: <div style="text-align: center;"><input type="checkbox"/></div>		I have Chemicals in this room, But none on this list: <div style="text-align: center;"><input type="checkbox"/></div>		Signature:

In order to ensure that the University at Albany remains compliant with the Department of Homeland Security's Chemical Facility Anti-Terrorism Standard (CFATS), the University must maintain an accurate inventory of all chemicals that are included on the Department's [Chemicals of Interest \(COI\) list](#). All divisions, departments, laboratories and trade shops that possess any chemicals must complete this inventory annually for every space or room under their supervision. Any chemical that is included on the COI inventory that is in your possession should be recorded with its approximate weight in pounds (1 lb. = 455 grams or ml). Common COI chemicals found at the University are highlighted below. Each time a COI is purchased, the inventory shall be updated and submitted.

All completed inventories should be submitted to the Office of Environmental Health and Safety (Chem B73) for compliance with the CFATS regulation.

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Acetaldehyde		75-07-0		
Acetone cyanohydrin, stabilized		75-86-5		
Acetyl bromide		506-96-7		
Acetyl chloride		75-36-5		
Acetyl iodide		507-02-8		
Acetylene	Ethyne	74-86-2		
Acrolein	2-Propenal;Acrylaldehyde	107-02-8		
Acrylonitrile	2-Propenenitrile	107-13-1		
Acrylyl chloride	2-Propenoyl chloride	814-68-6		
Allyl alcohol	2-Propen-1-ol	107-18-6		
Allylamine	2-Propen-1-amine	107-11-9		
Allyltrichlorosilane, stabilized		107-37-9		
Aluminum (powder)		7429-90-5		
Aluminum bromide, anhydrous		7727-15-3		
Aluminum chloride, anhydrous		7446-70-0		
Aluminum phosphide		20859-73-8		
Ammonia (anhydrous)		7664-41-7		
Ammonia (conc. 20% or greater)		7664-41-7		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Ammonium nitrate, [with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance]		6484-52-2		
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2		
Ammonium perchlorate		7790-98-9		
Ammonium picrate		131-74-8		
Amyltrichlorosilane		107-72-2		
Antimony pentafluoride		7783-70-2		
Arsenic trichloride	Arsenous trichloride	7784-34-1		
Arsine		7784-42-1		
Barium azide		18810-58-7		
1,4-Bis(2-chloroethylthio)-nbutane		142868-93-7		
Bis(2-chloroethylthio)methane		63869-13-6		
Bis(2-chloroethylthiomethyl)ether		63918-90-1		
1,5-Bis(2-chloroethylthio)-npentane		142868-94-8		
1,3-Bis(2-chloroethylthio)-npropane		63905-10-2		
Boron tribromide		10294-33-4		
Boron trichloride	Borane, trichloro	10294-34-5		
Boron trifluoride	Borane, trifluoro	7637-07-2		
Boron trifluoride compound with methyl ether (1:1)	Boron, trifluoro [oxybis (methane), T-4	353-42-4		
Bromine		7726-95-6		
Bromine chloride		13863-41-7		
Bromine pentafluoride		7789-30-2		
Bromine trifluoride		7787-71-5		
Bromotrifluorethylene	Ethene, bromotrifluoro-	598-73-2		
1,3-Butadiene		106-99-0		
Butane		106-97-8		
Butene		25167-67-3		
1-Butene		106-98-9		
2-Butene		107-01-7		
2-Butene-cis		590-18-1		
2-Butene-trans	2-Butene, (E)	624-64-6		
Butyltrichlorosilane		7521-80-4		
Calcium hydrosulfite	Calcium dithionite	15512-36-4		
Calcium phosphide		1305-99-3		
Carbon disulfide		75-15-0		
Carbon oxysulfide	Carbon oxide sulfide (COS);carbonyl sulfide	463-58-1		
Carbonyl fluoride		353-50-4		
Carbonyl sulfide		463-58-1		
Chlorine		7782-50-5		
Chlorine dioxide	Chlorine oxide, (ClO ₂)	10049-04-4		
Chlorine monoxide	Chlorine oxide	7791-21-1		
Chlorine pentafluoride		13637-63-3		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Chlorine trifluoride		7790-91-2		
Chloroacetyl chloride		79-04-9		
2-Chloroethylchloromethylsulfide		2625-76-5		
Chloroform	Methane, trichloro-	67-66-3		
Chloromethyl ether	Methane, oxybis(chloro-)	542-88-1		
Chloromethyl methyl ether	Methane, chloromethoxy-	107-30-2		
1-Chloropropylene	1-Propene, 1-chloro-	590-21-6		
2-Chloropropylene	1-Propene, 2-chloro-	557-98-2		
Chlorosarin	o-Isopropyl methylphosphonochloridate	1445-76-7		
Chlorosoman	o-Pinacolyl methylphosphonochloridate	7040-57-5		
Chlorosulfonic acid		7790-94-5		
Chromium oxychloride		14977-61-8		
Crotonaldehyde	2-Butenal	4170-30-3		
Crotonaldehyde, (E)-	2-Butenal, (E)-	123-73-9		
Cyanogen	Ethanedinitrile	460-19-5		
Cyanogen chloride		506-77-4		
Cyclohexylamine	Cyclohexanamine	108-91-8		
Cyclohexyltrichlorosilane		98-12-4		
Cyclopropane		75-19-4		
DF	Methyl phosphonyl difluoride	676-99-3		
Diazodinitrophenol		87-31-0		
Diborane		19287-45-7		
Dichlorosilane	Silane, dichloro-	4109-96-0		
N,N-(2-diethylamino)ethanethiol		100-38-9		
Diethyldichlorosilane		1719-53-5		
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate		78-53-5		
Diethyleneglycol dinitrate		693-21-0		
Diethyl methylphosphonite		15715-41-0		
N,N-Diethyl phosphoramidic dichloride		1498-54-0		
N,N-(2-diisopropylamino)ethanethiol N,N-diisopropyl-(beta)-aminoethane thiol		5842-07-9		
Difluoroethane	Ethane, 1,1-difluoro-	75-37-6		
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1		
1,1-Dimethylhydrazine	Hydrazine, 1, 1-dimethyl-	57-14-7		
Dimethylamine	Methanamine, N-methyl-	124-40-3		
N,N-(2-dimethylamino)ethanethiol		108-02-1		
Dimethyldichlorosilane	Silane, dichlorodimethyl-	75-78-5		
N,N-Dimethyl phosphoramidic dichloride Dimethylphosphoramidodichloridate		677-43-0		
2,2-Dimethylpropane	Propane, 2,2-dimethyl-	463-82-1		
Dingu	Dinitroglycoluril	55510-04-8		
Dinitrogen tetroxide		10544-72-6		
Dinitrophenol		25550-58-7		
Dinitroresorcinol		519-44-8		
Diphenyldichlorosilane		80-10-4		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Dipicryl sulfide		2217-06-3		
Dipicrylamine [or] Hexyl	Hexanitrodiphenylamine	131-73-7		
N,N-(2-dipropylamino)ethanethiol		5842-06-8		
N,N-Dipropyl phosphoramidic dichloride		40881-98-9		
Dodecyltrichlorosilane		4484-72-4		
Epichlorohydrin	Oxirane, (chloromethyl)-	106-89-8		
Ethane		74-84-0		
Ethyl acetylene	1-Butyne	107-00-6		
Ethyl chloride	Ethane, chloro-	75-00-3		
Ethyl ether	Ethane, 1,1-oxybis-	60-29-7		
Ethyl mercaptan	Ethanethiol	75-08-1		
Ethyl nitrite	Nitrous acid, ethyl ester	109-95-5		
Ethyl phosphonyl difluoride		753-98-0		
Ethylamine	Ethanamine	75-04-7		
Ethyldiethanolamine		139-87-7		
Ethylene	Ethene	74-85-1		
Ethylene oxide	Oxirane	75-21-8		
Ethylenediamine	1,2-Ethanediamine	107-15-3		
Ethyleneimine	Aziridine	151-56-4		
Ethylphosphonothioic dichloride		993-43-1		
Ethyltrichlorosilane		115-21-9		
Fluorine		7782-41-4		
Fluorosulfonic acid		7789-21-1		
Formaldehyde (solution)		50-00-0		
Furan		110-00-9		
Germane		7782-65-2		
Germanium tetrafluoride		7783-58-6		
Guanyl nitrosaminoguanilydene hydrazine				
Hexaethyl tetraphosphate and compressed gas mixtures		757-58-4		
Hexafluoroacetone		684-16-2		
Hexanitrostilbene		20062-22-0		
Hexolite	Hexotol	121-82-4		
Hexyltrichlorosilane		928-65-4		
HMX	Cyclotetramethylenetetranitramine	2691-41-0		
HN1 (nitrogen mustard-1)	Bis(2-chloroethyl)ethylamine	538-07-8		
HN2 (nitrogen mustard-2)	Bis(2-chloroethyl)methylamine	51-75-2		
HN3 (nitrogen mustard-3)	Tris(2-chloroethyl)amine	555-77-1		
Hydrazine		302-01-2		
Hydrochloric acid (conc. 37% or greater)		7647-01-0		
Hydrocyanic acid		74-90-8		
Hydrofluoric acid (conc. 50% or greater)		7664-39-3		
Hydrogen		1333-74-0		
Hydrogen bromide (anhydrous)		10035-10-6		
Hydrogen chloride (anhydrous)		7647-01-0		
Hydrogen cyanide	Hydrocyanic acid	74-90-8		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Hydrogen fluoride (anhydrous)		7664-39-3		
Hydrogen iodide, anhydrous		10034-85-2		
Hydrogen peroxide (concentration of at least 35%)		7722-84-1		
Hydrogen selenide		7783-07-5		
Hydrogen sulfide		7783-06-4		
Iodine pentafluoride		7783-66-6		
Iron, pentacarbonyl-	Iron carbonyl (Fe (CO) ₅), (TB5-11)-	13463-40-6		
Isobutane	Propane, 2-methyl	75-28-5		
Isobutyronitrile	Propanenitrile, 2-methyl-	78-82-0		
Isopentane	Butane, 2-methyl-	78-78-4		
Isoprene	1,3-Butadiene, 2-methyl-	78-79-5		
Isopropyl chloride	Propane, 2-chloro-	75-29-6		
Isopropyl chloroformate	Carbonochloridic acid, 1-methylethyl ester	108-23-6		
Isopropylamine	2-Propanamine	75-31-0		
Isopropylphosphonothioic dichloride		1498-60-8		
Isopropylphosphonyl difluoride		677-42-9		
Lead azide		13424-46-9		
Lead styphnate	Lead trinitroresorcinate	15245-44-0		
Lewisite 1	2-Chlorovinylchloroarsine	541-25-3		
Lewisite 2	Bis(2-chlorovinyl)chloroarsine	40334-69-8		
Lewisite 3	Tris(2-chlorovinyl)arsine	40334-70-1		
Lithium amide		7782-89-0		
Lithium nitride		26134-62-3		
Magnesium (powder)		7439-95-4		
Magnesium diamide		7803-54-5		
Magnesium phosphide		12057-74-8		
MDEA	Methyldiethanolamine	105-59-9		
Mercury fulminate		628-86-4		
Methacrylonitrile	2-Propenenitrile, 2-methyl-	126-98-7		
Methane		74-82-8		
2-Methyl-1-butene		563-46-2		
3-Methyl-1-butene		563-45-1		
Methyl chloride	Methane, chloro-	74-87-3		
Methyl chloroformate	Carbonochloridic acid, methyl ester	79-22-1		
Methyl ether	Methane, oxybis-	115-10-6		
Methyl formate	Formic acid Methyl ester	107-31-3		
Methyl hydrazine	Hydrazine, methyl-	60-34-4		
Methyl isocyanate	Methane, isocyanato-	624-83-9		
Methyl mercaptan	Methanethiol	74-93-1		
Methyl thiocyanate	Thiocyanic acid, methyl ester	556-64-9		
Methylamine	Methanamine	74-89-5		
Methylchlorosilane		993-00-0		
Methyldichlorosilane		75-54-7		
Methylphenyldichlorosilane		149-74-6		
Methylphosphonothioic dichloride		676-98-2		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
2-Methylpropene	1-Propene, 2-methyl-	115-11-7		
Methyltrichlorosilane	Silane, trichloromethyl-	75-79-6		
Mustard gas(H) (Sulfur mustard)	Bis(2-chloroethyl)sulfide	505-60-2		
O-Mustard (T)	Bis(2-chloroethylthioethyl)ether	63918-89-8		
Nickel Carbonyl		13463-39-3		
Nitric acid		7697-37-2		
Nitric oxide	Nitrogen oxide (NO)	10102-43-9		
Nitrobenzene		98-95-3		
5-Nitrobenzotriazol		2338-12-7		
Nitrocellulose		9004-70-0		
Nitrogen mustard (Mechlorethamine hydrochloride)	Bis(2-chloroethyl)methylamine hydrochloride	55-86-7		
Nitrogen trioxide		10544-73-7		
Nitroglycerine		55-63-0		
Nitromannite	Mannitol hexanitrate, wetted	15825-70-4		
Nitromethane		75-52-5		
Nitrostarch		9056-38-6		
Nitrosyl chloride		2696-92-6		
Nitrotriazolone		932-64-9		
Nonyltrichlorosilane		5283-67-0		
Octadecyltrichlorosilane		112-04-9		
Octolite		57607-37-1		
Octonal		78413-87-3		
Octyltrichlorosilane		5283-66-9		
Oleum (Fuming Sulfuric acid)	Sulfuric acid, mixture with sulfur trioxide	8014-95-7		
Oxygen difluoride		7783-41-7		
1,3-Pentadiene		504-60-9		
Pentane		109-66-0		
1- Pentene		109-67-1		
2-Pentene, (E)-		646-04-8		
2-Pentene, (Z)-		627-20-3		
Pentolite		8066-33-9		
Peracetic acid	Ethaneperoxic acid	79-21-0		
Perchloromethylmercaptan	Meth anesulfenyl chloride, trichloro-	594-42-3		
Perchloryl fluoride		7616-94-6		
PETN	Pentaerythritol tetranitrate	78-11-5		
Phenyltrichlorosilane		98-13-5		
Phosgene	Carbonic dichloride;carbonyl dichloride	75-44-5		
Phosphine		7803-51-2		
Phosphorus		7723-14-0		
Phosphorus oxychloride	Phosphoryl chloride	10025-87-3		
Phosphorus pentabromide		7789-69-7		
Phosphorus pentachloride		10026-13-8		
Phosphorus pentasulfide		1314-80-3		
Phosphorus trichloride		7719-12-2		
Picrite	Nitroguanidine	556-88-7		
Piperidine		110-89-4		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Potassium chlorate		3811-04-9		
Potassium cyanide		151-50-8		
Potassium nitrate		7757-79-1		
Potassium perchlorate		7778-74-7		
Potassium permanganate		7722-64-7		
Potassium phosphide		20770-41-6		
Propadiene	1,2-Propadiene	463-49-0		
Propane		74-98-6		
Propionitrile	Propanenitrile	107-12-0		
Propyl chloroformate	Carbonchloridic acid, propylester	109-61-5		
Propylene [1-Propene]		115-07-1		
Propylene oxide	Oxirane, methyl-	75-56-9		
Propyleneimine	Aziridine, 2-methyl-	75-55-8		
Propylphosphonothioic dichloride		2524-01-8		
Propylphosphonyl difluoride		690-14-2		
Propyltrichlorosilane		141-57-1		
Propyne	1-Propyne	74-99-7		
QL	o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite	57856-11-8		
RDX	Cyclotrimethylenetrinitramine	121-82-4		
RDX and HMX mixtures		121-82-4		
Sarin	o-Isopropylmethylphosphonofluoridate	107-44-8		
Selenium hexafluoride		7783-79-1		
Sesquimustard	1,2-Bis(2-chloroethylthio)ethane	3563-36-8		
Silane		7803-62-5		
Silicon tetrachloride		10026-04-7		
Silicon tetrafluoride		7783-61-1		
Sodium azide		26628-22-8		
Sodium chlorate		7775-09-9		
Sodium cyanide		143-33-9		
Sodium hydrosulfite	Sodium dithionite	7775-14-6		
Sodium nitrate		7631-99-4		
Sodium phosphide		12058-85-4		
Soman	o-Pinacolyl methylphosphonofluoridate	96-64-0		
Stibine		7803-52-3		
Strontium phosphide		12504-16-4		
Sulfur dioxide (anhydrous)		7446-09-5		
Sulfur tetrafluoride	Sulfur fluoride (SF ₄), (T-4)-	7783-60-0		
Sulfur trioxide		7446-11-9		
Sulfuryl chloride		7791-25-5		
Tabun	o-Ethyl-N,Ndimethylphosphoramido-cyanidate	77-81-6		
Tellurium hexafluoride		7783-80-4		
Tetrafluoroethylene	Ethene, tetrafluoro-	116-14-3		
Tetramethyllead	Plumbane, tetramethyl-	75-74-1		
Tetramethylsilane	Silane, tetramethyl-	75-76-3		

Chemical of Interest	Synonym	CAS Number	(√) if present	Amount in Pounds
Tetranitroaniline		53014-37-2		
Tetranitromethane	Methane, tetranitro-	509-14-8		
Tetrazene	Guanyl nitrosaminoguanyltetrazene	109-27-3		
1H-Tetrazole		288-94-8		
Thiodiglycol	Bis(2-hydroxyethyl)sulfide	111-48-8		
Thionyl chloride		7719-09-7		
Titanium tetrachloride	Titanium chloride (TiCl ₄) (T-4)-	7550-45-0		
TNT	Trinitrotoluene	118-96-7		
Torpex	Hexotonal	67713-16-0		
Trichlorosilane	Silane, trichloro-	10025-78-2		
Triethanolamine		102-71-6		
Triethanolamine hydrochloride		637-39-8		
Triethyl phosphate		122-52-1		
Trifluoroacetyl chloride		354-32-5		
Trifluorochloroethylene	Ethene, chlorotrifluoro	79-38-9		
Trimethylamine	Meth anamine, N,N-dimethyl-	75-50-3		
Trimethylchlorosilane	Silane, chlorotrimethyl-	75-77-4		
Trimethyl phosphate		121-45-9		
Trinitroaniline		26952-42-1		
Trinitroanisole		606-35-9		
Trinitrobenzene		99-35-4		
Trinitrobenzenesulfonic acid		2508-19-2		
Trinitrobenzoic acid		129-66-8		
Trinitrochlorobenzene		88-88-0		
Trinitrofluorenone		129-79-3		
Trinitro-meta-cresol		602-99-3		
Trinitronaphthalene		55810-17-8		
Trinitrophenetole		4732-14-3		
Trinitrophenol	Picric Acid	88-89-1		
Trinitroresorcinol		82-71-3		
Tritonal		54413-15-9		
Tungsten hexafluoride		7783-82-6		
Vinyl acetate monomer	Acetic acid ethenyl ester	108-05-4		
Vinyl acetylene	1-Buten-3-yne	689-97-4		
Vinyl chloride	Ethene, chloro-	75-01-4		
Vinyl ethyl ether	Ethene, ethoxy-	109-92-2		
Vinyl fluoride	Ethene, fluoro-	75-02-5		
Vinyl methyl ether	Ethene, methoxy-	107-25-5		
Vinylidene chloride	Ethene, 1,1-dichloro-	75-35-4		
Vinylidene fluoride	Ethene, 1,1-difluoro-	75-38-7		
Vinyltrichlorosilane		75-94-5		
VX	o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate	50782-69-9		
Zinc hydrosulfite	Zinc dithionite	7779-86-4		