



# University of Pittsburgh

*Department of Environmental Health and Safety*

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## Memorandum

**TO:** University Community

**FROM:** Jay Frerotte  
Director, Environmental Health and Safety

**DATE:** March 31, 2009

**RE:** DHS Chemicals of Interest

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In November 2007, the US Department of Homeland Security (DHS) published the Chemical Facility Anti-terrorism Standard. As you may recall, these new rules required the University to conduct an inventory of DHS "Chemicals of Interest" and to submit this inventory to DHS. Subsequently, the University was required to register with DHS and to maintain an inventory of Chemicals of Interest.

In order to maintain an accurate inventory, please order all Chemicals of Interest (see attached list) exclusively through the PantherBuy system. When ordering a Chemical of Interest through the PantherBuy system, the order will be automatically routed to EH&S for entry to the Chemicals of Interest inventory maintained by EH&S.

Please implement this requested change in your ordering practices immediately. Your cooperation will be appreciated.

For questions regarding the PantherBuy system, please contact the PantherBuy Team at [pantherbuy@bc.pitt.edu](mailto:pantherbuy@bc.pitt.edu). For information on DHS Chemicals of Interest or the applicable regulation, please contact Environmental Health and Safety at 412-624-9505.

**University of Pittsburgh**  
**Department of Homeland Security Chemicals of Interest**

Abbreviated list for use by the University of Pittsburgh

<b>Chemical</b>	<b>CAS No.</b>
Acetone cyanohydrin, stabilized (synonym: 2-Methylacto	75-86-5
Aluminum (powder)	7429-90-5
Aluminum phosphide	20859-73-8
Ammonium nitrate (with more than 0.2 percent	6484-52-2
Ammonium perchlorate	7790-98-9
Ammonium picrate	131-74-8
Arsenic trichloride (synonym: Arsenous trichloride)	7784-34-1
Arsine	7784-42-1
Barium azide	18810-58-7
1,4-Bis(2-chloroethylthio)-n-butane	142868-93-7
Bis(2-chloroethylthio)methane	63869-13-6
Bis(2-chloroethylthiomethyl)ether	63918-90-1
1,5-Bis(2-chloroethylthio)-n-pentane	142868-94-8
1,3-Bis(2-chloroethylthio)-n-propane	63905-10-2
Boron tribromide	10294-33-4
Boron trichloride (synonym: Trichloroborane)	10294-34-5
Boron trifluoride (synonym: Trifluoroborane)	7637-07-2
Bromine chloride	13863-41-7
Bromine pentafluoride	7789-30-2
Bromine trifluoride	7787-71-5
Calcium phosphide	1305-99-3
Carbonyl fluoride	353-50-4
Carbonyl sulfide	463-58-1
Chlorine	7782-50-5
Chlorine pentafluoride	13637-63-3
Chlorine trifluoride	7790-91-2
Chloroacetyl chloride	79-04-9
2-Chloroethylchloromethylsulfide (synonym: 2-	2625-76-5
Chlorosarin (synonym: o-Isopropyl	1445-76-7
Chlorosoman (synonym: o-Pinacolyl	7040-57-5
Chlorosulfonic acid	7790-94-5
Cyanogen (synonym: Ethanedinitrile)	460-19-5
Cyanogen chloride	506-77-4
DF (synonym: Methyl phosphonyl difluoride)	676-99-3
Diazodinitrophenol	87-31-0
Diborane	19287-45-7
Dichlorosilane (synonym: Silane, dichloro-)	4109-96-0
N,N-(2-diethylamino)ethanethiol	100-38-9
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 (synonym: N,N-	5842-07-9
N,N-Diisopropyl phosphoramidic dichloride	23306-80-1
N,N-(2-dimethylamine)ethanethiol	108-02-1

N,N-Dimethyl phosphoramidic dichloride (synonym: Dingu (synonym: Dinitroglycoluril)	677-43-0
Dinitrogen tetroxide (synonym: Nitrogen Dioxide)	55510-04-8
Dinitrophenol	10544-72-6
Dinitroresorcinol	25550-58-7
Dipicryl sulfide	519-44-8
Dipicrylamine [or] Hexyl (synonym: N,N-(2-dipropylamino)ethanethiol	2217-06-3
N,N-Dipropyl phosphoramidic dichloride	131-73-7
Ethyl phosphonyl difluoride	5842-06-8
Ethyl diethanolamine (synonym: Diethanoethylamine)	40881-98-9
Ethylphosphonothioic dichloride	753-98-0
Fluorine	139-87-7
Germane	993-43-1
Germanium tetrafluoride	7782-41-4
Guanyl nitrosaminoguanylidene hydrazine	7782-65-2
Hexaethyl tetraphosphate and compressed gas mixtures	7783-58-6
Hexafluoroacetone	
Hexanitrostilbene	757-58-4
Hexolite (synonym: Hexotol)	684-16-2
HMX (synonym: Cyclotetramethylenetetranitramine)	20062-22-0
HN1 (synonyms: nitrogen mustard-1 or Bis(2-	121-82-4
HN2 (synonyms: nitrogen mustard-2 or Bis(2-	2691-41-0
HN3 (synonyms: nitrogen mustard-3 or Bis(2-	538-07-8
Hydrogen bromide, anhydrous	51-75-2
Hydrogen chloride, anhydrous	555-77-1
Hydrogen cyanide (synonym: Hydrocyanic acid)	10035-10-6
Hydrogen fluoride, anhydrous	7647-01-0
Hydrogen iodide, anhydrous	74-90-8
Hydrogen peroxide (>= 35% concentration)	7664-39-3
Hydrogen selenide	10034-85-2
Hydrogen sulfide	7722-84-1
Isopropylphosphonothioic dichloride	7783-07-5
Isopropylphosphonyl difluoride	7783-06-4
Lead azide	1498-60-8
Lead styphnate (synonym: Lead tetranitroresorcinate)	677-42-9
Lewisite 1 (synonym: 2-Chlorovinylchloroarsine)	13424-46-9
Lewisite 2 (synonym: Bis(2-chlorovinyl)chloroarsine)	15245-44-0
Lewisite 3 (synonym: Tris(2-chlorovinyl)arsine)	541-25-3
Lithium amide	40334-69-8
Lithium nitride	40334-70-1
Magnesium (powder)	7782-89-0
Magnesium phosphide	26134-62-3
MDEA (synonyms: Methyldiethanolamine or Mercury fulminate	7439-95-4
Methyl mercaptan (synonym: Methanethiol)	628-86-4
Methylchlorosilane	74-93-1
Methyldichlorosilane	993-00-0
Methylphosphonothioic dichloride	75-54-7
Mustard gas (H) (synonyms: Sulfur mustard or Bis(2-	676-98-2
O-Mustard (T) (synonym: Bis(2-	505-60-2
Nitric acid (all concentrations including Red Fuming	63918-89-8
	7697-37-2

Nitric oxide (Nitrogen oxide)	10102-43-9
Nitrobenzene	98-95-3
5-Nitrobenzotriazol	2338-12-7
Nitrocellulose (does NOT include nitrocellulose-based	9004-70-0
Nitrogen mustard hydrochloride (synonym: Bis(2-	55-86-7
Nitrogen trioxide	10544-73-7
Nitroglycerine	55-63-0
Nitromannite (synonym: Mannitol hexanitrate, wetted)	15825-70-4
Nitromethane	75-52-5
Nitrostarch	9056-38-6
Nitrosyl chloride	2696-92-6
Nitrotriazolone	932-64-9
Octolite	57607-37-1
Octonal	78413-87-3
Oxygen difluoride	7783-41-7
Pentolite	8066-33-9
Perchloryl fluoride	7616-94-6
PETN (synonym: Pentaerythritol tetranitrate)	78-11-5
Phosgene (synonyms: Carbonic dichloride or Carbonyl	75-44-5
Phosphine	7803-51-2
Phosphorus	7723-14-0
Phosphorus oxychloride (synonym: Phosphoryl chloride)	10025-87-3
Phosphorus pentasulfide (synonyms: Phosphorus	1314-80-3
Phosphorus trichloride	7719-12-2
Picrite (synonym: Nitroguanidine)	556-88-7
Potassium chlorate	3811-04-9
Potassium nitrate	7757-79-1
Potassium perchlorate	7778-74-7
Potassium permanganate	7722-64-7
Potassium phosphide	20770-41-6
Propylphosphonothioic dichloride	2524-01-8
Propylphosphonyl difluoride	690-14-2
QL (synonym: o-Ethyl-o-2-diisopropylaminoethylmethyl-	57856-11-8
RDX (synonym: Cyclotrimethylenetrinitramine)	121-82-4
Sarin (synonym: o-Isopropyl methylphosphonofluoridate)	107-44-8
Selenium hexafluoride	7783-79-1
Sesquimustard (synonym: 1,2-Bis(2-	3563-36-8
Silicon tetrafluoride	7783-61-1
Sodium azide	26628-22-8
Sodium chlorate	7775-09-9
Sodium nitrate	7631-99-4
Sodium phosphide	12058-85-4
Soman (synonym: o-Pinacolyl	96-64-0
Stibine	7803-52-3
Strontium phosphide	12504-16-4
Sulfur dioxide	7446-09-5
Sulfur tetrafluoride (synonym: Sulfur fluoride)	7783-60-0
Sulfuryl chloride	7791-25-5
Tabun (synonym: o-Ethyl-N,N-	77-81-6
Tellurium hexafluoride	7783-80-4
Tetranitroaniline	53014-37-2
Tetrazene (synonym: Guanyl	109-27-3

1H-Tetrazole	288-94-8
Thiodiglycol (synonym: Bis(2-hydroxyethyl)sulfide)	111-48-8
Titanium tetrachloride (synonym: Titanium (IV) chloride)	7550-45-0
TNT (synonym: Trinitrotoluene)	118-96-7
Torpex (synonym: Hexotonal)	67713-16-0
Trichlorosilane	10025-78-2
Triethanolamine	102-71-6
Triethanolamine hydrochloride	637-39-8
Triethyl phosphite	122-52-1
Trifluoroacetyl chloride	354-32-5
Trifluorochloroethylene (synonym: Chlorotrifluoroethene)	79-38-9
Trimethyl phosphite	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	88-89-1
Trinitroresorcinol	82-71-3
Tritonal	54413-15-9
Tungsten hexafluoride	7783-82-6
VX (synonym: o-Ethyl-S-2-diisopropylaminoethyl)	50782-69-9