

Appendix A to Part 27. -- DHS Chemicals of Interest ¹																	
Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release			Theft			Sabotage			Security Issue					
			Minimum Concentration (%)	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)	Screening Threshold Quantities (in pounds unless otherwise noted)	Minimum Concentration (%)	Screening Threshold Quantities	Release - Toxic	Release - Flammables	Release - Explosives	Theft - CW/CWP	Theft - WME	Theft - EXP/EDP	Sabotage/Contamination		
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2			33.00	2000										X	
Ammonium perchlorate		7790-98-9	ACG	5,000	ACG	400										X	
Ammonium picrate		131-74-8	ACG	5,000	ACG	400										X	
Amylchlorosilane		107-72-2						ACG	APA								X
Antimony pentafluoride		7783-70-2						ACG	APA								X
Arsenic trichloride	[Arsenous trichloride]	7784-34-1	1.00	15,000	30.00	2.2											X
Arsine		7784-42-1	1.00	1,000	0.67	15											X
Barium azide		18810-58-7	ACG	5,000	ACG	400											X
1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7					CUM	100g									X
Bis(2-chloroethylthio)methane		63869-13-6					CUM	100g									X
Bis(2-chloroethylthio)methyl ether		63918-90-1					CUM	100g									X
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8					CUM	100g									X
1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2					CUM	100g									X
Boron tribromide		10294-33-4					12.67	45	ACG	APA							X
Boron trichloride	[Borane, trichloro]	10294-34-5	1.00	5,000	84.70	45											X
Boron trifluoride	[Borane, trifluoro]	7637-07-2	1.00	5,000	26.87	45											X
Boron trifluoride compound with methyl ether (1:1)	[Boron, trifluoro (oxybis (methane))-T-4]	353-42-4	1.00	15,000													X
Bromine		7726-95-6	1.00	10,000													X
Bromine chloride		13863-41-7					9.67	45									X
Bromine pentafluoride		7789-30-2															X
Bromine trifluoride		7787-71-5					6.00	45	ACG	APA							X
Bromotrifluoroethylene	[Ethene, bromotrifluoro-]	598-73-2	1.00	10,000													X

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1,3-Butadiene		106-99-0	1.00	10,000					X								
Butane		106-97-8	1.00	10,000					X								
Butene		25167-67-3	1.00	10,000					X								
1-Butene		106-98-9	1.00	10,000					X								
2-Butene		107-01-7	1.00	10,000					X								
2-Butene-cis		590-18-1	1.00	10,000					X								
2-Butene-trans		624-64-6	1.00	10,000					X								
Butylchlorosilane		7521-80-4						ACG	APA								X
Calcium hydrosulfite		15512-36-4						ACG	APA								X
Calcium phosphide		1305-99-3						ACG	APA								X
Carbon disulfide		75-15-0	1.00	20,000													X
Carbon oxysulfide	[Carbon oxide sulfide (COS); carbonyl sulfide]	463-58-1	1.00	10,000													X
Carbonyl fluoride		353-50-4								12.00	45						X
Carbonyl sulfide		463-58-1								56.67	500						X
Chlorine		7782-50-5	1.00	2,500						9.77	500						X
Chlorine dioxide		10049-04-4	1.00	1,000								ACG	APA	X			X
Chlorine monoxide	[Chlorine oxide, (ClO2)]	7791-21-1	1.00	10,000													X
Chlorine pentafluoride		13637-63-3								4.07	15						X
Chlorine trifluoride		7790-91-2								9.97	45						X
Chloroacetyl chloride		79-04-9										ACG	APA				X
2-Chloroethylchloro-methylsulfide		2625-76-5															X
Chloroform	[Methane, trichloro-]	67-66-3	1.00	20,000													X
Chloromethyl ether	[Methane, oxybis(chloro-)]	542-88-1	1.00	1,000													X
Chloromethyl methyl ether	[Methane, chloromethoxy-]	107-30-2	1.00	5,000													X
1-Chloropropylene	[1-Propene, 1-chloro-]	590-21-6	1.00	10,000													X
2-Chloropropylene	[1-Propene, 2-chloro-]	557-98-2	1.00	10,000													X

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			Minimum Concentration (%)	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)	Screening Threshold Quantities (in pounds unless otherwise noted)	Minimum Concentration (%)	Screening Threshold Quantities	Release - Toxic	Release - Flammables	Release - Explosives	Theft - CW/CWP	Theft - WME	Theft - EXP/IEDP	Sabotage/Contamination	
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8			CUM 100g							X				
HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2			CUM 100g							X				
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1			CUM 100g							X				
Hydrazine		302-01-2	1.00	10,000									X			
Hydrochloric acid (conc. 37% or greater)		7647-01-0	37.00	15,000									X			
Hydrocyanic acid		74-90-8	1.00	2,500									X			
Hydrofluoric acid (conc. 50% or greater)		7664-39-3	50.00	1,000									X			
Hydrogen		1333-74-0	1.00	10,000										X		
Hydrogen bromide (anhydrous)		10036-10-6			95.33	500									X	
Hydrogen chloride (anhydrous)		7647-01-0	1.00	5,000	ACG	500							X			
Hydrogen cyanide		74-90-8			4.67	15								X		
Hydrogen fluoride (anhydrous)	[Hydrocyanic acid]	7664-39-3	1.00	1,000	42.53	45							X			
Hydrogen iodide, anhydrous		10034-85-2			95.33	500								X		
Hydrogen peroxide (concentration of at least 35%)		7722-84-1			35.00	400									X	
Hydrogen selenide		7783-07-5	1.00	10,000	0.07	15									X	
Hydrogen sulfide		7783-06-4	1.00	10,000	23.73	45									X	
Iodine pentafluoride		7783-66-6														
Iron, pentacarbonyl-	[Iron carbonyl (Fe (CO) ₅), (TBS-1)-]	13463-40-6	1.00	10,000												X
Isobutane	[Propane, 2-methyl]	75-28-5	1.00	10,000												
Isobutyronitrile	[Propanenitrile, 2-methyl-]	78-82-0	1.00	20,000											X	
Isopentane	[Butane, 2-methyl-]	78-78-4	1.00	10,000											X	
Isoprene	[1,3-Butadiene, 2-methyl-]	78-79-5	1.00	10,000												X

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			Minimum Concentration (%)	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)	Screening Threshold Quantities (in pounds unless otherwise noted)	Minimum Concentration (%)	Screening Threshold Quantities	Release - Toxic	Release - Flammables	Release - Explosives	Theft - CW/CWP	Theft - WME	Theft - EXP/EDP	Sabotage/Contamination		
Isopropyl chloride	[Propane, 2-chloro-]	75-29-6	1.00	10,000						X							
Isopropyl chloroformate	[Carbonochloridic acid, 1-methylethyl ester] [2-Propanamine]	108-23-6	1.00	15,000						X							
Isopropylamine		75-31-0	1.00	10,000													
Isopropylphosphonothioic dichloride		1498-60-8			30.00	2.2								X			
Isopropylphosphonyl difluoride		677-42-9				CUM 100g									X		
Lead azide		13424-46-9	ACG	5,000	ACG	400										X	
Lead styphnate	[Lead trinitroresorcinate]	15245-44-0	ACG	5,000	ACG	400										X	
Lewisite 1	[2-Chlorovinyl]chloroarsine	541-25-3				CUM 100g											X
Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8				CUM 100g											X
Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1				CUM 100g											X
Lithium amide		7782-89-0										ACG	APA				X
Lithium nitride		26134-62-3										ACG	APA				X
Magnesium (powder)		7439-95-4										ACG	APA				X
Magnesium diamide		7803-54-5										ACG	APA				X
Magnesium phosphide		12057-74-8										ACG	APA				X
MDEA	[Methylethanolamine]	105-59-9															
Mercury fulminate		628-86-4	ACG	5,000	ACG	400											X
Methacrylonitrile	[2-Propenenitrile, 2-methyl-]	126-98-7	1.00	10,000													X
Methane		74-82-8	1.00	10,000													X
2-Methyl-1-butene		563-46-2	1.00	10,000													X
3-Methyl-1-butene		563-45-1	1.00	10,000													X
Methyl chloride	[Methane, chloro-]	74-87-3	1.00	10,000													X
Methyl chloroformate	[Carbonochloridic acid, methyl ester]	79-22-1	1.00	10,000													X
Methyl ether	[Methane, oxybis-]	115-10-6	1.00	10,000													X
Methyl formate	[Formic acid Methyl ester]	107-31-3	1.00	10,000													X

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Methyl hydrazine	[Hydrazine, methyl-]	60-34-4	1.00	15,000						X							
Methyl isocyanate	[Methane, isocyanato-]	624-83-9	1.00	10,000						X							
Methyl mercaptan	[Methanethiol]	74-93-1	1.00	10,000	45.00	500						X					
Methyl thiocyanate	[Thiocyanic acid, methyl ester]	556-64-9	1.00	20,000						X							
Methylamine	[Methanamine]	74-89-5	1.00	10,000								X					
Methylchlorosilane		993-00-0			20.00	45								X			
Methyldichlorosilane		75-54-7						ACG	APA								X
Methylphenyldichlorosilane		149-74-6						ACG	APA								X
Methylphosphonothioic dichloride		676-98-2				30.00	2.2							X			
2-Methylpropene	[1-Propene, 2-methyl-]	115-11-7	1.00	10,000								X					
Methyltrichlorosilane	[Silane, trichloromethyl-]	75-79-6	1.00	10,000				ACG	APA			X					X
Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2				CUM 100g								X			
O-Mustard (T)	[Bis(2-chloroethylthioethyl)ether]	63918-89-8				CUM 100g								X			
Nickel Carbonyl		13463-39-3	1.00	10,000									X				
Nitric acid		7697-37-2	80.00	15,000	88.00	400				X							X
Nitric oxide		10102-43-9	1.00	10,000	3.83	15				X				X			
Nitrobenzene	[Nitrogen oxide (NO)]	98-95-3			ACG	100											X
5-Nitrobenzotriazol		2338-12-7	ACG	5,000	ACG	400								X			X
Nitrocellulose		9004-70-0	ACG	5,000	ACG	400								X			X
Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7			30.00	2.2								X			
Nitrogen trioxide		10544-73-7				15											X
Nitroglycerine		55-63-0	ACG	5,000	ACG	400								X			X
Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4	ACG	5,000	ACG	400								X			X
Nitromethane		75-52-5			ACG	400											X
Nitrostarch		9056-38-6	ACG	5,000	ACG	400								X			X
Nitrosyl chloride		2696-92-6			1.17	15											X

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Phosphorus trichloride		7719-12-2	1.00	15,000	3.48	45	ACG	APA	X								X
Picrite	[Nitroguanidine]	586-88-7	ACG	5,000	ACG	400						X					X
Piperidine		110-89-4	1.00	10,000													
Potassium chlorate		3811-04-9			ACG	400											X
Potassium cyanide		151-50-8															
Potassium nitrate		7757-79-1			ACG	400		ACG	APA								X
Potassium perchlorate		7778-74-7			ACG	400											X
Potassium permanganate		7722-64-7			ACG	400											X
Potassium phosphide		20770-41-6						ACG	APA								X
Propadiene	[1,2-Propadiene]	463-49-0	1.00	10,000								X					
Propane		74-98-6	1.00	60,000								X					
Propionitrile	[Propanenitrile]	107-12-0	1.00	10,000													
Propyl chloroformate	[Carbonylchloric acid, propylester]	109-61-5	1.00	10,000													
Propylene	[1-Propene]	115-07-1	1.00	10,000													
Propylene oxide	[Oxirane, methyl-]	75-56-9	1.00	10,000													
Propyleneimine	[Aziridine, 2-methyl-]	75-55-8	1.00	10,000													
Propylphosphorothioic dichloride		2524-01-8			30.00	2.2											X
Propylphosphonyl difluoride		690-14-2															
Propyltrichlorosilane		141-57-1			CUM	100g		ACG	APA								X
Propyne	[1-Propyne]	74-99-7	1.00	10,000													
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57866-11-8															
RDX	[Cyclotrimethylenetrinitramine]	121-82-4	ACG	5,000	ACG	400											X
RDX and HMX mixtures		121-82-4	ACG	5,000	ACG	400											X
Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8						CUM	100g								X
Selenium hexafluoride		7763-79-1			1.67	15											X

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Vinyl acetate monomer	[Acetic acid ethenyl ester]	108-05-4	1.00	10,000															
Vinyl acetylene	[1-Buten-3-yne]	689-97-4	1.00	10,000															
Vinyl chloride	[Ethene, chloro-]	75-01-4	1.00	10,000															
Vinyl ethyl ether	[Ethene, ethoxy-]	109-92-2	1.00	10,000															
Vinyl fluoride	[Ethene, fluoro-]	75-02-5	1.00	10,000															
Vinyl methyl ether	[Ethene, methoxy-]	107-25-5	1.00	10,000															
Vinylidene chloride	[Ethene, 1,1-dichloro-]	75-35-4	1.00	10,000															
Vinylidene fluoride	[Ethene, 1,1-difluoro-]	75-38-7	1.00	10,000															
Vinyltrichlorosilane		75-94-5																	
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9							CUM 100g										
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4																	

¹ The acronyms used in this appendix have the following meaning: ACG = A Commercial Grade; APA = A Placarded Amount; CW/CWP = Chemical Weapons/Chemical Weapons Precursors; WME = Weapons of Mass Effect; EXP/IEDP = Explosives/Improvised Explosive Device Precursors

[72 FR 65420, Nov. 20, 2007]

PART 29—PROTECTED CRITICAL INFRASTRUCTURE INFORMATION

Sec.

- 29.1 Purpose and scope.
- 29.2 Definitions.
- 29.3 Effect of provisions.
- 29.4 Protected Critical Infrastructure Information Program administration.
- 29.5 Requirements for protection.
- 29.6 Acknowledgment of receipt, validation, and marking.
- 29.7 Safeguarding of Protected Critical Infrastructure Information.
- 29.8 Disclosure of Protected Critical Infrastructure Information.
- 29.9 Investigation and reporting of violation of PCII procedures.

AUTHORITY: Pub. L. 107–296, 116 Stat. 2135 (6 U.S.C. 1 *et seq.*); 5 U.S.C. 301.

SOURCE: 71 FR 52271, Sept. 1, 2006, unless otherwise noted.

§ 29.1 Purpose and scope.

(a) *Purpose of this part.* This part implements sections 211 through 215 of the Homeland Security Act of 2002 (HSA) through the establishment of uniform procedures for the receipt, care, and storage of Critical Infrastructure Information (CII) voluntarily submitted to the Department of Homeland Security (DHS). Title II, Subtitle B, of the Homeland Security Act is referred to herein as the Critical Infrastructure Information Act of 2002 (CII Act). Consistent with the statutory mission of DHS to prevent terrorist attacks within the United States and reduce the vulnerability of the United States to terrorism, DHS will encourage the voluntary submission of CII by safeguarding and protecting that information from unauthorized disclosure and by ensuring that such information is, as necessary, securely shared with State and local government pursuant to section 214(a) through (g) of the CII Act. As required by the CII Act, these rules establish procedures regarding:

- (1) The acknowledgement of receipt by DHS of voluntarily submitted CII;
- (2) The receipt, validation, handling, storage, proper marking and use of information as PCII;
- (3) The safeguarding and maintenance of the confidentiality of such information, appropriate sharing of such

information with State and local governments pursuant to section 214(a) through (g) of the HSA.

(4) The issuance of advisories, notices and warnings related to the protection of critical infrastructure or protected systems in such a manner as to protect from unauthorized disclosure the source of critical infrastructure information that forms the basis of the warning, and any information that is proprietary or business sensitive, might be used to identify the submitting person or entity, or is otherwise not appropriately in the public domain.

(b) *Scope.* The regulations in this part apply to all persons and entities that are authorized to handle, use, or store PCII or that otherwise accept receipt of PCII.

§ 29.2 Definitions.

For purposes of this part:

(a) *Critical Infrastructure* has the meaning stated in section 2 of the Homeland Security Act of 2002 (referencing the term used in section 1016(e) of Public Law 107–56 (42 U.S.C. 5195c(e)).

(b) *Critical Infrastructure Information*, or *CII*, has the same meaning as established in section 212 of the CII Act of 2002 and means information not customarily in the public domain and related to the security of critical infrastructure or protected systems, including documents, records or other information concerning:

(1) Actual, potential, or threatened interference with, attack on, compromise of, or incapacitation of critical infrastructure or protected systems by either physical or computer-based attack or other similar conduct (including the misuse of or unauthorized access to all types of communications and data transmission systems) that violates Federal, State, local, or tribal law, harms interstate commerce of the United States, or threatens public health or safety;

(2) The ability of any critical infrastructure or protected system to resist such interference, compromise, or incapacitation, including any planned or