

APPENDIX A TO PART 27—DHS CHEMICALS OF INTEREST

Appendix A to Part 27. -- DHS Chemicals of Interest <sup>1</sup>

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	
Acetaldehyde		75-07-0	1.00	10,000					X							X
Acetone cyanohydrin, stabilized		75-86-5						ACG	APA							
Acetyl bromide		506-96-7						ACG	APA							X
Acetyl chloride		75-36-5						ACG	APA							X
Acetyl iodide		507-02-8						ACG	APA							X
Acetylene	[Ethyne]	74-86-2	1.00	10,000						X						
Acrolein	[2-Propenal] or Acrylaldehyde	107-02-8	1.00	5,000							X					
Acrylonitrile	[2-Propenenitrile]	107-13-1	1.00	10,000												
Acrylyl chloride	[2-Propenoyl chloride]	814-68-6	1.00	10,000												
Allyl alcohol	[2-Propen-1-ol]	107-18-6	1.00	15,000												
Allylamine	[2-Propen-1-amine]	107-11-9	1.00	10,000												X
Allyltrichlorosilane, stabilized		107-37-9						ACG	APA							X
Aluminum (powder)		7429-90-5					ACG	100								X
Aluminum bromide, anhydrous		7727-15-3							ACG	APA						X
Aluminum chloride, anhydrous		7446-70-0								ACG	APA					X
Aluminum phosphide		20859-73-8								ACG	APA					X
Ammonia (anhydrous)		7664-41-7	1.00	10,000												
Ammonia (conc. 20% or greater)		7664-41-7	20.00	20,000												X
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	ACG	5,000	ACG	400										X

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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			X
Ammonium picrate		131-74-8	ACG	5,000	ACG	400								X			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				X
1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7					CUM	100g									
Bis(2-chloroethylthio)methane		63869-13-6					CUM	100g									
Bis(2-chloroethylthio)methyl ether		63918-90-1					CUM	100g									
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8					CUM	100g									
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			X
Boron trifluoride	[Borane, trifluoro]	7637-07-2	1.00	5,000	26.87	45								X			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								ACG	APA						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		463-58-1	1.00	10,000													X
Carbonyl fluoride		353-50-4															X
Carbonyl sulfide		463-58-1															X
Chlorine		7782-50-5	1.00	2,500													X
Chlorine dioxide		10049-04-4	1.00	1,000													X
Chlorine monoxide		7791-21-1	1.00	10,000													X
Chlorine pentafluoride		13637-63-3															X
Chlorine trifluoride		7790-91-2															X
Chloroacetyl chloride		79-04-9															X
2-Chloroethylchloro-methylsulfide		2625-76-5															X
Chloroform		67-66-3	1.00	20,000													X
Chloromethyl ether		542-88-1	1.00	1,000													X
Chloromethyl methyl ether		107-30-2	1.00	5,000													X
1-Chloropropylene		590-21-6	1.00	10,000													X
2-Chloropropylene		557-98-2	1.00	10,000													X

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Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7			CUM 100g								X					
Chlorosoman	[o-Pinacoyl methylphosphonochloridate]	7040-57-5			CUM 100g								X					
Chlorosulfonic acid		7790-94-5						ACG	APA									X
Chromium oxychloride		14977-61-8						ACG	APA									X
Crotonaldehyde	[2-Butenal]	4170-30-3	1.00	10,000														
Crotonaldehyde, (E)-	[2-Butenal], (E)-	123-73-9	1.00	10,000														
Cyanogen	[Ethanedinitrile]	480-19-5	1.00	10,000	11.67	45												X
Cyanogen chloride		506-77-4	1.00	10,000	2.67	15												X
Cyclohexylamine	[Cyclohexanamine]	108-91-8	1.00	15,000														X
Cyclohexyltrichlorosilane		98-12-4						ACG	APA									X
Cyclopropane		75-19-4	1.00	10,000														
DF	Methyl phosphonyl difluoride	676-99-3																
Diazodinitrophenol		87-31-0	ACG	5,000	ACG	400								X				X
Diborane		19287-45-7	1.00	2,500	2.67	15												X
Dichlorosilane	[Silane, dichloro-]	4109-96-0	1.00	10,000	10.47	45												X
N,N-(2-diethylamino)ethanethiol		100-38-9			30.00	2.2												X
Diethylchlorosilane		1719-53-5																X
o,o-Diethyl S-[2-(diethylamino)ethyl]phosphorothiolate		78-63-6																X
Diethyleneglycol dinitrate		693-21-0	ACG	5,000	ACG	400												X
Diethyl methylphosphonite		15715-41-0			30.00	2.2												X
N,N-Diethyl phosphoramidic dichloride		1498-54-0			30.00	2.2												X
N,N-(2-diisopropylamino)ethanethiol		5842-07-9			30.00	2.2												X
diisopropylamino)ethanethiol	aminoethane thiol																	X

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Difluoroethane	[Ethane, 1,1-difluoro-]	75-37-6	1.00	10,000				X				X					
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1		30,00	30.00	2.2								X			
1,1-Dimethylhydrazine	[Hydrazine, 1, 1-dimethyl-]	57-14-7	1.00	10,000								X					
Dimethylamine	[Methanamine, N-methyl-]	124-40-3	1.00	10,000								X					
N,N-(2-dimethylamino)ethanethiol		108-02-1			30.00	2.2								X			
Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5	1.00	10,000					ACG	APA			X				X
N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramidodichloridate]	677-43-0			30.00	2.2								X			
2,2-Dimethylpropane	[Propane, 2,2-dimethyl-]	463-82-1	1.00	10,000								X					
Dingu	[Dinitroglucuril]	55510-04-8	ACG	5,000	ACG	400								X			X
Dinitrogen tetroxide		10544-72-6	3.80		ACG	15								X			X
Dinitrophenol		25550-58-7	ACG	5,000	ACG	400								X			X
Dinitrosocinol		519-44-8	ACG	5,000	ACG	400								X			X
Diphenyldichlorosilane		80-10-4			ACG	400			ACG	APA				X			X
Dipicryl sulfide		2217-06-3	ACG	5,000	ACG	400								X			X
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7	ACG	5,000	ACG	400								X			X
N,N-(2-dipropylamino)ethanethiol		5842-06-8			30.00	2.2											X
N,N-Dipropyl phosphoramidic dichloride		40881-98-9			30.00	2.2											X
Dodecyltrichlorosilane		4484-72-4															
Epichlorohydrin	[Oxirane, (chloromethyl)-]	106-89-8	1.00	20,000									ACG	APA			X
Ethane		74-84-0	1.00	10,000													X
Ethyl acetylene	[1-Butyne]	107-00-6	1.00	10,000													X
Ethyl chloride	[Ethane, chloro-]	75-00-3	1.00	10,000													X
Ethyl ether	[Ethane, 1,1-oxybis-]	60-29-7	1.00	10,000													X
Ethyl mercaptan	[Ethanethiol]	75-08-1	1.00	10,000													X

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Ethyl nitrite	[Nitrous acid, ethyl ester]	109-95-5	1.00	10,000						X									
Ethyl phosphonyl difluoride		753-98-0			CUM	100g									X				
Ethylamine	[Ethanamine]	75-04-7	1.00	10,000											X				
Ethyldiethanolamine		139-87-7				220									X				
Ethylene	[Ethene]	74-85-1	1.00	10,000											X				
Ethylene oxide	[Oxirane]	75-21-8	1.00	10,000											X				
Ethylenediamine	[1,2-Ethanediamine]	107-15-3	1.00	20,000											X				
Ethyleneimine	[Aziridine]	151-56-4	1.00	10,000											X				
Ethylphosphonothioic dichloride		993-43-1				2.2									X				
Ethyltrichlorosilane		115-21-9										ACG	APA						X
Fluorine		7782-41-4	1.00	1,000	6.17	15									X				
Fluosulfonic acid		7789-21-1										ACG	APA						X
Formaldehyde (solution)		50-00-0	1.00	15,000											X				
Furan		110-00-9	1.00	10,000											X				
Germane		7782-65-2				45									X				
Germanium tetrafluoride		7783-58-6				15									X				
Guanyl nitrosaminoguanylidene hydrazine			ACG	5,000		400									X				X
Hexaethyl tetraphosphate and compressed gas mixtures		757-58-4				500													X
Hexafluoroacetone		684-16-2				45													X
Hexanitrostilbene		20062-22-0	ACG	5,000	ACG	400									X				X
Hexolite	[Hexoto]	121-82-4	ACG	5,000	ACG	400									X				X
Hexyltrichlorosilane		928-65-4																	X
HMX	[Cyclotetramethylene-tetranitramine]	2691-41-0	ACG	5,000	ACG	400									X				X

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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												
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												
Hydrogen bromide (anhydrous)		10036-10-6			95.33	500							X			
Hydrogen chloride (anhydrous)		7647-01-0	1.00	5,000	ACG	500					X			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			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			X		
Iodine pentafluoride		7783-66-6														
Iron, pentacarbonyl-	[Iron carbonyl (Fe (CO) <sub>5</sub> ), (TBS-11)-]	13463-40-6	1.00	10,000												
Isobutane	[Propane, 2-methyl]	75-28-5	1.00	10,000												
Isobutyronitrile	[Propanitrile, 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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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	[2-Propanamine]	75-31-0	1.00	10,000										X			
Isopropylphosphonothioic dichloride		1498-60-8			30.00	2.2											
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
Lithium nitride		26134-62-3														ACG	APA
Magnesium (powder)		7439-95-4															
Magnesium diamide		7803-54-5				ACG	100										
Magnesium phosphide		12057-74-8															
MDEA	[Methylethanolamine]	105-59-9															
Mercury fulminate		628-86-4	ACG	5,000	ACG	400											
Methacrylonitrile	[2-Propenenitrile, 2-methyl-]	126-98-7	1.00	10,000													
Methane		74-82-8	1.00	10,000													
2-Methyl-1-butene		563-46-2	1.00	10,000													
3-Methyl-1-butene		563-45-1	1.00	10,000													
Methyl chloride	[Methane, chloro-]	74-87-3	1.00	10,000													
Methyl chloroformate	[Carbonochloridic acid, methyl ester]	79-22-1	1.00	10,000													
Methyl ether	[Methane, oxbis-]	115-10-6	1.00	10,000													
Methyl formate	[Formic acid Methyl ester]	107-31-3	1.00	10,000													



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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															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

Appendix A to Part 27. -- DHS Chemicals of Interest<sup>1</sup>

Chemicals of Interest (CI)	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	
Nitrotriazolone		932-64-9	ACG	5,000	ACG	400				X						X
Nonyltrichlorosilane		5283-67-0					ACG	APA								X
Octadecyltrichlorosilane		112-04-9					ACG	APA								X
Octolite		57607-37-1	ACG	5,000	ACG	400									X	
Octonal		78413-87-3	ACG	5,000	ACG	400									X	
Octyltrichlorosilane		5283-66-9					ACG	APA								X
Oleum (Fuming Sulfuric acid)	Sulfuric acid, mixture with sulfur trioxide	8014-95-7	1.00	10,000									X			
Oxygen difluoride		7783-41-7			0.09	15									X	
1,3-Pentadiene		504-60-9	1.00	10,000									X			
Pentane		109-66-0	1.00	10,000									X			
1- Pentene		109-67-1	1.00	10,000									X			
2-Pentene, (E)-		646-04-8	1.00	10,000									X			
2-Pentene, (Z)-		627-20-3	1.00	10,000									X			
Pentolite		8066-33-9	ACG	5,000	ACG	400										X
Peracetic acid	[Ethanesperoxic acid]	79-21-0	1.00	10,000												X
Perchloromethylmercaptan	[Methanesulfonyl chloride, trichloro-]	594-42-3	1.00	10,000									X			
Perchloryl fluoride		7616-94-6			25.67	45										X
PEIN	[Pentaerythritol tetranitrate]	78-11-5	ACG	5,000	ACG	400										X
Phenyltrichlorosilane		98-13-5							ACG	APA						
Phosgene	[Carbonic dichloride] or [carbonyl dichloride]	75-44-5	1.00	500	0.17	15							X			
Phosphine		7803-51-2	1.00	10,000	0.67	15										X
Phosphorus		7723-14-0			ACG	400										X
Phosphorus oxychloride	[Phosphoryl chloride]	1025-87-3	1.00	5,000	80.00	220			ACG	APA						X
Phosphorus pentabromide		7789-69-7							ACG	APA						
Phosphorus pentachloride		10026-13-8							ACG	APA						
Phosphorus pentasulfide		1314-80-3							ACG	APA						

Appendix A to Part 27. -- DHS Chemicals of Interest <sup>1</sup>

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 - WME	Theft - CW/CWP	Theft - WME	Theft - EXP/EDP	Sabotage/Contamination
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													X	
Potassium nitrate		7757-79-1			ACG	400									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											X	
Propyl chloroformate	[Carbonylchloric acid, propylester]	109-61-5	1.00	10,000											X	
Propylene	[1-Propene]	115-07-1	1.00	10,000											X	
Propylene oxide	[Oxirane, methyl-]	75-56-9	1.00	10,000											X	
Propyleneimine	[Aziridine, 2-methyl-]	75-55-8	1.00	10,000											X	
Propylphosphorothioic dichloride		2524-01-8			30.00	2.2									X	
Propylphosphonyl difluoride		690-14-2													X	
Propyltrichlorosilane		141-57-1													X	
Propyne	[1-Propyne]	74-99-7	1.00	10,000											X	
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57866-11-8													X	
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													X	
Selenium hexafluoride		7763-79-1			1.67	15									X	

Appendix A to Part 27. -- DHS Chemicals of Interest<sup>1</sup>

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		
Sesquimustard		3563-36-8			CUM 100g												
Silane	[1,2-Bis(2-chloroethylthio)ethane]	7803-62-5	1.00	10,000													
Silicon tetrachloride		10026-04-7				ACG	APA										
Silicon tetrafluoride		7783-61-1			15.00	45											
Sodium azide		26628-22-8			ACG	400											
Sodium chlorate		7775-09-9			ACG	400											
Sodium cyanide		143-33-9															
Sodium hydrosulfitte	[Sodium dithionite]	7775-14-6															
Sodium nitrate		7631-99-4			ACG	400											
Sodium phosphide		12058-85-4															
Soman	[o-Pinacoly methylphosphonofluoridate]	96-64-0				CUM 100g											
Sibine		7803-52-3			0.67	15											
Strontium phosphide		12504-16-4															
Sulfur dioxide (anhydrous)		7446-09-5	1.00	5,000	84.00	500											
Sulfur tetrafluoride	[Sulfur fluoride (SF4), (T-4)]	7783-60-0	1.00	2,500	1.33	15											
Sulfur trioxide		7446-11-9	1.00	10,000													
Sulfuryl chloride		7791-25-5															
Tabun	[o-Ethyl-N,N-dimethylphosphoramido-cyanidate]	77-81-6				CUM 100g											
Tellurium hexafluoride		7783-80-4															
Tetrafluoroethylene	[Ethene, tetrafluoro-]	116-14-3	1.00	10,000		0.83	15										
Tetramethyllead	[Plumbane, tetramethyl-]	75-74-1	1.00	10,000													
Tetramethylsilane	[Silane, tetramethyl-]	75-76-3	1.00	10,000													
Tetranitroaniline		53014-37-2	ACG	5,000	ACG	400											
Tetranitromethane	[Methane, tetranitro-]	509-14-8	1.00	10,000													
Tetrazene	[Guanyl nitrosaminoguanyltetrazene]	109-27-3	ACG	5,000	ACG	400											

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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		
			ACG	5,000	ACG	400	ACG	400									
[H]-Tetrazole		288-94-8	ACG	5,000	ACG	400								X			
Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8			30.00	2.2							X				
Thionyl chloride		7719-09-7					ACG	APA									X
Titanium tetrachloride	[Titanium chloride (TiCl4) (T-4)]	7550-45-0	1.00	2,500	13.33	45											X
TNT	[Trinitrotoluene]	118-96-7	ACG	5,000	ACG	400								X			X
Torpex	[Hexotonal]	67713-16-0	ACG	5,000	ACG	400								X			X
Trichlorosilane	[Silane, trichloro-]	10025-78-2	1.00	10,000			ACG	APA						X			X
Triethanolamine		102-71-6			80.00	220									X		
Triethanolamine hydrochloride		637-39-8			80.00	220									X		
Triethyl phosphite		122-52-1			80.00	220									X		
Trifluoroacetyl chloride		354-32-5			6.93	45											X
Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9	1.00	10,000	66.67	500								X			X
Trimethylamine	[Methanamine, N,N-dimethyl-]	75-50-3	1.00	10,000										X			X
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4	1.00	10,000										X			X
Trimethyl phosphite		121-45-9			80.00	220				ACG	APA						X
Trimethylaniline		26952-42-1	ACG	5,000	ACG	400											X
Trinitrobenzene		606-35-9	ACG	5,000	ACG	400											X
Trinitroisobole		99-35-4	ACG	5,000	ACG	400											X
Trinitrobenzenesulfonic acid		2508-19-2	ACG	5,000	ACG	400											X
Trinitrobenzoic acid		129-66-8	ACG	5,000	ACG	400											X
Trinitrochlorobenzene		88-88-0	ACG	5,000	ACG	400											X
Trinitrofluorenone		129-79-3	ACG	5,000	ACG	400											X
Trinitro-meta-cresol		602-99-3	ACG	5,000	ACG	400											X
Trinitronaphthalene		56810-17-8	ACG	5,000	ACG	400											X
Trinitrophenetole		4732-14-3	ACG	5,000	ACG	400											X
Trinitrophenol		88-89-1	ACG	5,000	ACG	400											X
Trinitroresorcinol		82-71-3	ACG	5,000	ACG	400											X
Tritonal		54413-15-9	ACG	5,000	ACG	400											X
Tungsten hexafluoride		7783-82-6			7.10	45											X

**Appendix A to Part 27. -- DHS Chemicals of Interest<sup>1</sup>**

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/IEDP	Sabotage/Contamination				
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-]	75-07-4	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																	

<sup>1</sup> 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

**PART 29—PROTECTED CRITICAL INFRASTRUCTURE INFORMATION**

## Sec.

- 29.1 Purpose and scope.
- 29.2 Definitions.
- 29.3 FOIA exemptions and restrictions on use of PCII.
- 29.4 PCII program administration.
- 29.5 Requirements for protection.
- 29.6 Acknowledgement of receipt, validation, and marking.
- 29.7 Safeguarding of PCII.
- 29.8 Disclosure of PCII.
- 29.9 Investigation and reporting of violation of PCII procedures.

AUTHORITY: 6 U.S.C. 671–674; Section 2222–2225 of the Homeland Security Act of 2002, Pub. L. 107–296, 116 Stat. 2135, as amended by Subtitle B of the Cybersecurity and Infrastructure Security Act of 2018, Pub. L. 115–278, 132 Stat. 4184. 5 U.S.C. 301.

SOURCE: 71 FR 52271, Sept. 1, 2006, as amended at 87 FR 77972, Dec. 21, 2022, unless otherwise noted.

**§ 29.1 Purpose and scope.**

(a) *Purpose of this part.* This part implements the Critical Infrastructure Information Act of 2002 (CII Act) by establishing uniform procedures for the receipt, care, and storage of Critical Infrastructure Information voluntarily submitted to the Department of Homeland Security through CISA. 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, CISA 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 governments pursuant to the CII Act. As required by the CII Act, this part establishes procedures regarding:

- (1) The acknowledgment of receipt by CISA 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 and appropriate sharing of such information with State and Local governments or government agencies pursuant to 6 U.S.C. 673(a)(1)(E); and

(4) The issuance of advisories, notices, and warnings related to the protection of critical infrastructure or protected systems in such a manner to protect, as appropriate, 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.* This part applies to all persons and entities that are authorized to handle, use, store, or otherwise accept receipt of PCII.

**§ 29.2 Definitions.**

For purposes of this part:

*Critical Infrastructure* has the same meaning stated in 6 U.S.C. 101(4) (which cross references the term used in 42 U.S.C. 5195c(e)) and means systems and assets, whether physical or virtual, so vital to the United States that the incapacity or destruction of such systems and assets would have a debilitating impact on security, national economic security, national public health or safety, or any combination of those matters.

*Critical Infrastructure Information or CII* has the same meaning stated in 6 U.S.C. 671(1) 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, or Local 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