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Part II

Department of Homeland Security

6 CFR Part 27
Appendix to Chemical Facility Anti-Terrorism Standards; Final Rule

Appendix A to Part 27. -- DHS Chemicals of Interest¹

Appendix A to Part 27. -- DHS Chemicals of Interest¹

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Minimum Concentration (%)	Screening Threshold Quantities (in pounds unless otherwise noted)	Minimum Concentration (%)	Screening Threshold Quantities (in pounds)	Screening Threshold Quantities (in pounds unless otherwise noted)	Minimum Concentration (%)	Release	Theft	Sabotage	Security Issue	Sabotage/Contamination
													Theft - EXP/IEDP
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2			33.00	2000			X				X
Ammonium perchlorate		77790-98-9	ACG	5,000	ACG	400					X		X
Ammonium picrate		131-74-8	ACG	5,000	ACG	400					X		X
Amyltrichlorosilane		107-72-2									X		X
Antimony pentfluoride		7783-70-2									X		X
Arsenic trichloride [Arsenous trichloride]		7784-34-1	1.00	15,000	30.00	2.2					X		X
Arsine		7784-42-1	1.00	1,000	0.67	15					X		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				X		X
Bis(2-chloroethylthio)methane		63869-13-6					CUM 100g				X		X
Bis(2-chloroethylthiomethyl)ether		63918-90-1					CUM 100g				X		X
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8					CUM 100g				X		X
1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2					CUM 100g				X		X
Boron tribromide		10294-33-4					12.67	45			X		X
Boron trichloride	[Borane, trichloro]	10294-34-5	1.00	5,000	84.70	45					X		X
Boron trifluoride	[Borane, trifluoro]	7631-07-2	1.00	5,000	26.87	45					X		X
Boron trifluoride compound with methyl ether (1:1), T-4		353-42-4	1.00	15,000							X		X
Bromine		7726-95-6	1.00	10,000							X		X
Bromine chloride		13863-41-7									X		X
Bromine pentafluoride		7789-30-2									X		X
Bromine trifluoride		7787-71-5									X		X
Bromotrifluorethylene	[Ethene, bromotrifluoro-]	598-73-2	1.00	10,000							X		X

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1,3-Butadiene			106-99-0	1.00	10,000					Sabotage/Contamination
Butane			106-97-8	1.00	10,000		X			Theft - EXP/IEDP
Butene			25167-67-3	1.00	10,000		X			Theft - WME
1-Butene			106-98-9	1.00	10,000		X			Theft - CW/CWP
2-Butene			107-01-7	1.00	10,000		X			Release - Explosives
2-Butene-cis			590-18-1	1.00	10,000		X			Release - Toxic
2-Butene-trans		[2-Butene, (E)]	624-64-6	1.00	10,000		X			Release - Flammables
Butyltrichlorosilane			7521-80-4				ACG	APA		
Calcium hydrosulfite		[Calcium dithionite]	15512-36-4				ACG	APA		
Calcium phosphide			1305-99-3							
Carbon disulfide			75-15-0	1.00	20,000		X			
Carbon oxy sulfide		[Carbon oxide sulfide (COS); carbonyl sulfide]	463-58-1	1.00	10,000		X			
Carbonyl fluoride			353-50-4			12.00	45			
Carbonyl sulfide			463-58-1			56.67	500			
Chlorine			7782-50-5	1.00	2,500	9.77	500			
Chlorine dioxide		[Chlorine oxide, (ClO ₂)]	10049-04-4	1.00	1,000		ACG	APA		
Chlorine monoxide		[Chlorine oxide]	7791-21-1	1.00	10,000		X			
Chlorine pentafluoride			13637-63-3							
Chlorine trifluoride			7790-91-2			4.07	15			
Chloroacetyl chloride			79-04-9			9.97	45			
2-Chloroethyl chloro-methyl sulfide			2625-76-5				ACG	APA		
Chloroform					CUM 100g					
Chloromethyl ether			67-66-3	1.00	20,000					
Chloromethyl methyl ether			542-88-1	1.00	1,000					
1-Chloropropylene			107-30-2	1.00	5,000					
2-Chloropropylene			590-21-6	1.00	10,000					
			557-98-2	1.00	10,000					

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Chlorosarin	[o-Isopropyl methylphosphonochloridate] [o-Pinacolyl methylphosphonochloridate]	1445-76-7		CUM 100g									X			
Chlorosoman		7040-57-5											X			
Chlorosulfonic acid		7790-94-5														
Chromium oxychloride		14977-61-8														
Crotonaldehyde	[2-Butenal]	4170-30-3	1.00	10,000												
Crotonaldehyde, (E)-	[2-Butenal, (E-)]	123-73-9	1.00	10,000									X			
Cyanogen	[Ethanenitrile]	460-19-5	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														
Cyclopropane		75-19-4	1.00	10,000									X			
DF	Methyl phosphonyl difluoride	676-99-3		CUM 100g									X			
Diazodinitrophenol		87-31-0	ACG	5,000	ACG	400							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			
Diethyl dichlorosilane		1719-53-5														
O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothioate		78-53-5		30,00	2.2								X			
Diethylene glycol dinitrate		693-21-0	ACG	5,000	ACG	400							X			
Diethyl methylphosphonite		15715-41-0											X			
N,N-Diethyl phosphoramidic dichloride		1498-54-0											X			
N,N-(2-diisopropylamino)ethanethiol	N,N-diisopropyl-(beta)-aminoethane thiol	5842-07-9											X			

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Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Sabotage/Contamination			
			Theft	Release	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)
Difluoroethane	[Ethane, 1,1-difluoro-]	75-37-6	1.00	10,000	30.00	2.2
N,N-Diisopropyl phosphoramidic dichloride	[Hydrazine, 1, 1-dimethyl-] [Methanamine, N-methyl-]	23306-80-1			X	X
1,1-Dimethylhydrazine		57-14-7	1.00	10,000	X	X
Dimethylamine		124-40-3	1.00	10,000	X	X
N,N-(2-dimethylamino)ethanethiol		108-02-1			X	X
Dimethyl/dichlorosilane	[Silane, dichlorodimethyl-]	75-78-5	1.00	10,000	ACG	APA
N,N-Dimethyl 1 phosphoramidic dichloride	[Dimethylphosphoramido-dichloridate]	677-43-0			X	X
2,2-Dimethylpropane	[Propane, 2,2-dimethyl-] [Dinitroglycoluril]	463-82-1	1.00	10,000	ACG	400
Dingu		55510-04-8			X	X
Dinitrogen tetroxide		10544-72-6			X	X
Dinitrophenol		25550-58-7	ACG	5,000	ACG	400
Dinitroresorcinol		519-44-8	ACG	5,000	ACG	400
Diphenyl/dichlorosilane		80-10-4			ACG	APA
Dipropyl sulfide		2217-06-3	ACG	5,000	ACG	400
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7	ACG	5,000	ACG	400
N,N-(2-dimethylamino)ethanethiol		5842-06-8		30.00	2.2	X
N,N-Diisopropyl phosphoramidic dichloride		40881-98-9		30.00	2.2	X
Dodecyltrichlorosilane		4484-72-4			ACG	APA
Epichlorohydrin	[Oxirane, (chloromethyl)-]	106-89-8	1.00	20,000	X	X
Ethane		74-84-0	1.00	10,000	X	X
Ethyl acetylene	[1-Butyne]	107-00-6	1.00	10,000	X	X
Ethyl chloride	[Ethane, chloro-]	75-00-3	1.00	10,000	X	X
Ethyl ether	[Ethane, 1,1-oxybis-]	60-29-7	1.00	10,000	X	X
Ethyl mercaptan		75-08-1	1.00	10,000	X	X

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Synonym											Theft - EXP/IEDP	
Ethyl nitrite	[Nitrous acid, ethyl ester]	109-95-5	1.00	10,000	CUM 100g		X					
Ethyl phosphonyl difluoride		753-98-0					X					
Ethylamine	[Ethanamine]	75-04-7	1.00	10,000			X					
Ethyldiethanolamine		139-87-7					X					
Ethylene	[Ethene]	74-85-1	1.00	10,000			X					
Ethylene oxide	[Oxirane]	75-27-8	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			30.00	2.2						
Ethyltrichlorosilane		115-21-9					ACG	APA				X
Fluorine		7782-41-4	1.00	1,000	6.17	15	X					X
Fluorosulfonic 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					20.73	45				
Germanium tetrafluoride		7783-58-6					2.11	15				
Guanyl nitrosaminoguanylimidene hydrazine					ACG	5,000	ACG	400		X	X	X
Hexamethyl tetraphosphate and compressed gas mixtures		757-58-4					33.37	500				X
Hexafluoroacetone		684-16-2					15.67	45				X
Hexanitrostilbene		20062-22-0	ACG	5,000	ACG	400						X
Hexolite	[Hexoto]	121-82-4	ACG	5,000	ACG	400						X
Hexyltrichlorosilane		928-65-4					ACG	APA				X
HMX	[Cyclotetramethylene-terranitramine]	2691-41-0	ACG	5,000	ACG	400						X

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			Release	Theft	Theft - CW/CWP	Theft - EXP/IEDP		
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8	CUM 100g	X	X	X		
HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2	CUM 100g	X	X	X		
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1	CUM 100g	X	X	X		
Hydrazine		302-01-2	1.00	10,000	X	X		
Hydrochloric acid (conc. 37% or greater)		7647-01-0	37.00	15,000	X	X		
Hydrocyanic acid		74-90-8	1.00	2,500	X	X		
Hydrofluoric acid (conc. 50% or greater)		7664-39-3	50.00	1,000	X	X		
Hydrogen		13333-74-0	1.00	10,000	X	X		
Hydrogen bromide (anhydrous)		10035-10-6		95.33	500	X	X	
Hydrogen chloride (anhydrous)		7647-01-0	1.00	5,000	ACG	500	X	
Hydrogen cyanide	[Hydrocyanic acid]	74-90-8		4.67	15	X	X	
Hydrogen fluoride (anhydrous)		7664-39-3	1.00	1,000	42.53	45	X	X
Hydrogen iodide, anhydrous		10034-85-2		95.33	500	X	X	
Hydrogen peroxide		7722-84-1		35.00	400	X	X	
(concentration of at least 35%)								
Hydrogen selenide		7783-07-5	1.00	10,000	0.07	15	X	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)5], (TB5-11)-]	13463-40-6	1.00	10,000	ACG	APA	X	X
Isobutane	[Propane, 2-methyl]	75-28-5	1.00	10,000			X	
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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															Sabotage/Contamination	
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				
Methyl dichlorosilane		75-54-7										ACG	APA			X
Methylphenyl dichlorosilane		149-74-6										ACG	APA			X
Methylphosphonothioic dichloride		676-98-2		30.00	2.2							X				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								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	68.00	400						X				X
Nitric oxide	[Nitrogen oxide (NO)]	10102-43-9	1.00	10,000	3.83	15						X				X
Nitrobenzene		98-95-3										ACG	100			X
5-Nitrobenzotriazol		2338-12-7										ACG	400			X
Nitrocellulose		9004-70-0										ACG	400			X
Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7										30.00	2.2			X
Nitrogen trioxide		10544-73-7										3.83	15			X
Nitroglycerine		55-63-0										ACG	400			X
Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4										ACG	400			X
Nitromethane		75-52-5										ACG	400			X
Nitro starch		9056-38-6										ACG	400			X
Nitosyl chloride		2696-92-6										1.17	15			X

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Nitrotriazolone		932-64-9	ACG	5,000	ACG	400	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Nonyltrichlorosilane		5283-67-0																X
Octadecyltrichlorosilane		112-04-9																X
Ocotile		57607-37-1	ACG	5,000	ACG	400	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Octonal		78413-87-3	ACG	5,000	ACG	400	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Octyltrichlorosilane		5283-66-9																X
Oleum (Fuming Sulfuric acid)	[Sulfuric acid, mixture with sulfur trioxide]	8014-95-7	1.00	10,000										X				
Oxygen difluoride		7783-41-7												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	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Peracetic acid	[Ethaneperoxic acid]	79-21-0	1.00	10,000										X				
Perchloromethylmercaptan	[Methanesulfenyl] chloride, trichloro-	594-42-3	1.00	10,000										X				
Perchlorethanol		7616-94-6												X				
PETN	[Pentaerythritol tetranitrate]	78-11-5	ACG	5,000	ACG	400	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Phenyltrichlorosilane	[Carbonic dichloride] or [carbonyl dichloride]	98-13-5	1.00	500	0.17	15								X			X	X
Phosgene		75-44-5												X			X	X
Phosphine		7803-51-2	1.00	10,000	0.67	15								X			X	X
Phosphorus		7723-14-0												X			X	X
Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3	1.00	5,000	80.00	220	ACG	ACG	ACG	ACG	ACG	ACG	ACG	X	X	X	X	X
Phosphorus pentabromide		7789-69-7												X			X	X
Phosphorus pentachloride		10026-13-8												X			X	X
Phosphorus pentasulfide		1314-80-3												X			X	X

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															Theft - CW/CWP	
1H-Tetrazole		288-94-8	ACG	5,000	ACG	400						X				X
Thiodiglycol	[Bis(2-hydroxyethyl) sulfide]	111-48-8		30,000	2,2											X
Thionyl chloride		77719-09-7														X
Titanium tetrachloride	[Titanium chloride (TiCl ₄) (T-4)]	75550-45-0	1,00	2,500	13.33	45	ACG	APA	ACG	APA		X			X	X
TNT	[Trinitrotoluene]	118-96-7	ACG	5,000	ACG	400						X			X	X
Torpex	[Hexotonal]	67713-16-0	ACG	5,000	ACG	400						X			X	X
Trichlorosilane	[Silane, trichloro-]	10025-78-2	1,00	10,000								X			X	X
Triethanolamine		102-71-6		80,00	220							X			X	X
Triethanolamine hydrochloride		637-39-8		80,00	220							X			X	X
Triethyl phosphite		122-52-1		80,00	220							X			X	X
Trifluoroacetyl chloride		354-32-5		6.93	45							X			X	X
Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9	1,00	10,000	66.67	500						X			X	X
Trimethylamine	[Methanamine, N,N-dimethyl-]	75-50-3	1,00	10,000								X			X	X
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4	1,00	10,000								X			X	X
Trimethyl phosphite		121-45-9	ACG									X			X	X
Trinitroaniline		26952-42-1	ACG	5,000	ACG	400						X			X	X
Trinitroanisole		606-35-9	ACG	5,000	ACG	400						X			X	X
Trinitrobenzene		99-35-4	ACG	5,000	ACG	400						X			X	X
Trinitrobenzenesulfonic acid		2508-19-2	ACG	5,000	ACG	400						X			X	X
Trinitrobenzoic acid		129-66-8	ACG	5,000	ACG	400						X			X	X
Trinitrochlorobenzene		88-88-0	ACG	5,000	ACG	400						X			X	X
Trinitrofluorenone		129-79-3	ACG	5,000	ACG	400						X			X	X
Trinitro-o-meta- cresol		602-99-3	ACG	5,000	ACG	400						X			X	X
Trinitronaphthalene		55810-17-8	ACG	5,000	ACG	400						X			X	X
Trinitrophenetole		4732-14-3	ACG	5,000	ACG	400						X			X	X
Trinitrophenol		88-89-1	ACG	5,000	ACG	400						X			X	X
Trinitroresorcinol		82-71-3	ACG	5,000	ACG	400						X			X	X
Tritonal		54413-15-9	ACG	5,000	ACG	400						X			X	X
Tungsten hexafluoride		77783-82-6										X			X	X

Appendix A to Part 27. -- DHS Chemicals of Interest¹

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Minimum Concentration (%)			Screening Threshold Quantities (in pounds unless otherwise noted)	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)	Screening Threshold Quantities (in pounds unless otherwise noted)	Screening Threshold Quantities (in pounds)	Minimum Concentration (%)	Release	Theft	Sabotage	Security Issue	Sabotage/Contamination	
			Release	Theft	Sabotage												
Vinyl acetate monomer	[Acetic acid ethenyl ester]	108-05-4	1.00	10,000									X				
Vinyl acetylene	[1-Buten-3-yne]	689-97-4	1.00	10,000									X				
Vinyl chloride	[Ethene, chloro-]	75-01-4	1.00	10,000									X				
Vinyl ethyl ether	[Ethene, ethoxy-]	109-92-2	1.00	10,000									X				
Vinyl fluoride	[Ethene, fluoro-]	75-02-5	1.00	10,000									X				
Vinyl methyl ether	[Ethene, methoxy-]	107-25-5	1.00	10,000									X				
Vinyldiene chloride	[Ethene, 1,1-dichloro-]	75-35-4	1.00	10,000									X				
Vinyldiene fluoride	[Ethene, 1,1-difluoro-]	75-38-7	1.00	10,000									X				
Vinyltrichlorosilane		75-94-5															X
VX	[o-Ethyl-S-(2-diisopropylaminoethyl)methyl phosphonothiolate]	50782-69-9					CUM 100g						X				
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4											ACG	APA			X

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; EXP/EDP = Explosives/Improvised Explosive Device Precursors

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