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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

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		
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								
Ethylidethanolamine		139-87-7			80.00	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													
Ethyleneimine	[Aziridine]	151-56-4	1.00	10,000													
Ethylphosphonothioic dichloride		993-43-1			30.00	2.2								X			
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													
Furan		110-00-9	1.00	10,000										X			
Germane		7782-65-2			20.73	45											X
Germanium tetrafluoride		7783-58-6			2.11	15											X
Guanyl nitrosaminoguanylidene hydrazine			ACG	5,000	ACG	400								X			
Hexaethyl 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-tetranitramine]	2691-41-0	ACG	5,000	ACG	400								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]	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						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]dichloroarsine]	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	100										X
Magnesium diamide		7803-54-5										ACG	APA				X
Magnesium phosphide		12057-74-8										ACG	APA				X
MDEA	[Methyldiethanolamine]	105-59-9				80.00	220										
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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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							
Vinylidene chloride	[Ethene, 1,1-dichloro-]	75-35-4	1.00	10,000						X							
Vinylidene fluoride	[Ethene, 1,1-difluoro-]	75-38-7	1.00	10,000						X							
Vinyltrichlorosilane		75-94-5						ACG	APA								X
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9				CUM 100g											
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4						ACG	APA								

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

Michael Chertoff,

*Secretary of Homeland Security, Department
of Homeland Security.*

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