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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 Interest ¹

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release		Theft		Sabotage		Security Issue							
			Minimum Concentration (%)	Screening Threshold (in pounds)	Minimum Concentration (%)	Screening Threshold (in pounds unless otherwise noted)	Minimum Concentration (%)	Screening Threshold	Release - Toxic	Release - Flammables	Release - Explosives	Theft - CW/CWP	Theft - WME	Theft - EXP/IEDP	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					X	
Octonal		78413-87-3	ACG	5,000	ACG	400				X					X	
Ocyltrichlorosilane		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	[Ethaneperoxic acid]	79-21-0	1.00	10,000												
Perchloromethylmercaptan	[Methanesulfenyl chloride, trichloro-]	594-42-3	1.00	10,000								X				
Perchloryl fluoride		7616-94-6				45	25.67							X		
PETN	[Pentaerythritol tetranitrate]	78-11-5	ACG	5,000	ACG	400								X		
Phenyltrichlorosilane		98-13-5						ACG	APA							X
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]	10025-87-3	1.00	5,000	80.00	220		ACG	APA		X					X
Phosphorus pentabromide		7789-69-7						ACG	APA							X
Phosphorus pentachloride		10026-13-8						ACG	APA							X
Phosphorus pentasulfide		1314-80-3						ACG	APA							X

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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/IEDP	Sabotage/Contamination		
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								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; WME = Weapons of Mass Effect; EXP/IEDP = Explosives/Improvised Explosive Device Precursors

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of Homeland Security.*

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