



# Federal Register

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**Tuesday,  
November 20, 2007**

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**Part II**

## **Department of Homeland Security**

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**6 CFR Part 27**

**Appendix to Chemical Facility Anti-  
Terrorism Standards; Final Rule**

















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		
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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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	
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											X	
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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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								

<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

**Michael Chertoff,**

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

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