

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 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		
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									X				
Crotonaldehyde, (E)-	[2-Butenal], (E)-	123-73-9	1.00	10,000									X				
Cyanogen	[Ethanedinitrile]	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						ACG	APA								X
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			
Diethylchlorosilane		1719-53-5															X
o,o-Diethyl S-[2- (diethylamino)ethyl] phosphorothioate		78-53-5			30.00	2.2								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	N,N-diisopropyl-(beta)- aminoethane thiol	5842-07-9			30.00	2.2								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													
Perchloromethylmercaptan	[Methanesulfenyl chloride, trichloro-]	594-42-3	1.00	10,000									X				
Perchloryl fluoride		7616-94-6				25.67	45										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		10025-87-3	1.00	5,000	80.00	220			ACG	APA							X
Phosphorus pentabromide	[Phosphoryl chloride]	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								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