



MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

1001 I STREET, SACRAMENTO, CALIFORNIA 95814 • P.O. BOX 2815, SACRAMENTO, CALIFORNIA 95812-2815
(916) 323-2514 • (916) 324-0908 FAX • WWW.CALEPA.CA.GOV



EDMUND G. BROWN JR.
GOVERNOR

Unified Program Guidance Letter 14-05: Attachment 1 Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Nickel Carbonyl		13463-39-3	1 ²	-	☆
Phosgene	[Carbonic dichloride] or [carbonyl dichloride]	75-44-5	10	15	☆☆
Hydrogen selenide		7783-07-5	10 ²	15	☆☆
Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8	10	CUM ⁴ 100g	☆
Tabun	[o-Ethyl-N,N-dimethylphosphoramido-cyanidate]	77-81-6	10	CUM ⁴ 100g	☆
Lewisite 1	[2-Chlorovinyl dichloroarsine]	541-25-3	10 ²	CUM ⁴ 100g	☆
Fluoroacetyl chloride		359-06-8	10	-	-
Propargyl Bromide		10696-7	10	-	-
Ethylene fluorohydrin		371-62-0	10	-	-
Mechlorethamine		51-75-2	10	-	-
Methyl vinyl ketone		78-94-4	10	-	-
Phorate		298-02-2	10	-	-
Titanium Tetrachloride	[Titanium chloride (TiCl ₄) (T4)-]	7550-45-0	100	45	☆☆☆
Sulfur tetrafluoride	[Sulfur fluoride (SF ₄), (T-4)-]	7783-60-0	100	15	☆☆
Arsine		7784-42-1	100 ²	15	☆☆

AIR RESOURCES BOARD • DEPARTMENT OF PESTICIDE REGULATION • DEPARTMENT OF TOXIC SUBSTANCES CONTROL
OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT • DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY
STATE WATER RESOURCES CONTROL BOARD • REGIONAL WATER QUALITY CONTROL BOARDS

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Diborane		19287-45-7	100 ²	15	☆ ☆
Nitric oxide	[Nitrogen oxide(NO)]	10102-43-9	100 ²	15	☆ ☆
Hydrofluoric acid	[Hydrogen fluoride (anhydrous)] - Federal	7664-39-3	100 ²	45	☆ ☆
Phosphorus		7723-14-0	100	400	☆ ☆
Chlorine		7782-50-5	100 ²	500	☆ ☆
Sodium cyanide (Na(CN))		143-33-9	100	APA ⁵	☆
Tellurium hexafluoride		7783-80-4	100	15	☆
Iron, Pentacarbonyl-		13463-40-6	100	-	☆
Hydrocyanic acid		74-90-8	100 ²	-	☆
Potassium cyanide		151-50-8	100	-	☆
Chloromethyl ether	[Methane, oxybis(chloro-)]	542-88-1	100 ²	-	☆
Chloromethyl methyl ether	[Methane, chloromethoxy-]	107-30-2	100 ²	-	☆
Tetramethyllead	[Plumbane, tetramethyl-]	75-76-3	100	-	☆
Isophorone Diisocyanate		4098-71-9	100	-	-
Lithium hydride		7580-67-8	100	-	-
Manganese, tricarbonyl methylcyclopentadienyl		12108-13-3	100	-	-
Methacryloyl chloride		920-46-7	100	-	-
Methacryloyloxyethyl isocyanate		30674-80-7	100	-	-
Methyl phosphonic dichloride		676-97-1	100	-	-
Nitrogen Dioxide		10102-44-0	100	-	-
Ozone		10028-15-6	100	-	-
Phosphonothioic acid, Methyl-, S-(2-(Bis(1-Methylethyl)amino)ethyl) O-ethyl ester		50782-69-9	100	-	-

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Acrylyl chloride	[2-Propenoyl chloride]	814-68-6	100	-	-
Benzotrichloride		98-07-7	100	-	-
Cyanuric fluoride		675-14-9	100	-	-
Sulfur trioxide		7446-11-9	100	-	-
Toluene-2,6-Diisocyanate		91-08-7	100	-	-
Trichloro(Chloromethyl)silane		1558-25-4	100	-	-
Tris(2-chloroethyl)amine		555-77-1	100	-	-
Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3	500	220	☆☆☆
Methyltrichlorosilane		75-79-6	500 ²	APA ⁵	☆☆
Phosphine		7803-51-2	500	15	☆☆
Fluorine		7780-41-4	500 ²	15	☆☆
Boron trichloride	[Borane, trichloro]	10294-34-5	500 ²	45	☆☆
Boron trifluoride	[Borane, trifluoro]	7637-07-2	500 ²	45	☆☆
Hydrogen sulfide		7783-06-04	500 ²	45	☆☆
Sulfur dioxide (anhydrous)		7446-09-5	500	500	☆☆
Hydrogen chloride (anhydrous)	[Hydrogen chloride (gas only)] - State	7647-01-0	500 ²	500	☆☆
Methyl mercaptan	[Methanethiol]	74-93-1	500 ²	500	☆☆
Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2	500 ²	CUM ⁴ 100g	☆
Methacrylonitrile		12698-7	500	-	☆
Phosphorus trichloride		7719-12-2	1000	45	☆☆☆
Nitric acid		7697-37-2	1000 ²	400	☆☆
Chlorine dioxide	[Chlorine oxide, (ClO ₂)]	10049-04-4	1000	-	☆☆
Ammonium nitrate		6484-52-2	5000	400	☆☆
Ammonium perchlorate		7790-98-9	5000	400	☆☆
Ammonium picrate		131-74-8	5000	400	☆☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Barium azide		18810-58-7	5000	400	☆☆
Diazodinitrophenol		87-31-0	5000	400	☆☆
Diethyleneglycol dinitrate		693-21-0	5000	400	☆☆
Dingu	[Dinitroglycoluril]	55510-04-8	5000	400	☆☆
Dinitrophenol		25550-58-7	5000	400	☆☆
Dinitroresorcinol		519-44-8	5000	400	☆☆
Dipicryl sulfide		2217-06-3	5000	400	☆☆
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7	5000	400	☆☆
Guanyl nitrosaminoguanylidene hydrazine		-	5000	400	☆☆
Hexanitrostilbene		20062-22-0	5000	400	☆☆
Hexolite	[Hexotol]	121-82-4	5000	400	☆☆
HMX	[Cyclotetramethylene-tetranitramine]	2691-41-0	5000	400	☆☆
Lead azide		13424-46-9	5000	400	☆☆
Lead styphnate	[Lead trinitroresorcinate]	15245-44-0	5000	400	☆☆
Mercury fulminate		628-86-4	5000	400	☆☆
5-Nitrobenzotriazol		2338-12-7	5000	400	☆☆
Nitrocellulose		9004-70-0	5000	400	☆☆
Nitroglycerine		55-63-0	5000	400	☆☆
Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4	5000	400	☆☆
Nitrostarch		9056-38-6	5000	400	☆☆
Nitrotriazolone		932-64-9	5000	400	☆☆
Octolite		57607-37-1	5000	400	☆☆
Octonal		78413-87-3	5000	400	☆☆
Pentolite		8066-33-9	5000	400	☆☆
PETN	[Penterythritol tetranitrate]	78-11-5	5000	400	☆☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Picrite	[Nitroguanidine]	556-88-7	5000	400	☆☆
RDX or (RDX and HMX mixtures)	[Cyclotrimethylenetrinitramine]	121-82-4	5000	400	☆☆
Tetranitroaniline		53014-37-2	5000	400	☆☆
Tetrazene	[Guanyl nitrosaminoguanyltetrazene]	109-27-3	5000	400	☆☆
TNT	[Trinitrotoluene]	118-96-7	5000	400	☆☆
Torpex	[Hexotonal]	67713-16-0	5000	400	☆☆
Trinitroaniline		26952-42-1	5000	400	☆☆
Trinitroanisole		606-35-9	5000	400	☆☆
Trinitrobenzene		99-35-4	5000	400	☆☆
Trinitrobenzenesulfonic acid		2508-19-2	5000	400	☆☆
Trinitrobenzoic acid		129-66-8	5000	400	☆☆
Trinitrochlorobenzene		88-88-0	5000	400	☆☆
Trinitrofluorenone		129-79-3	5000	400	☆☆
Trinitro-meta-cresol		602-99-3	5000	400	☆☆
Trinitromaphthalene		55810-17-8	5000	400	☆☆
Trinitrophenetole		4732-14-3	5000	400	☆☆
Trinitrophenol		88-89-1	5000	400	☆☆
Trinitroresorcinol		82-71-3	5000	400	☆☆
Tritonal		54413-15-9	5000	400	☆☆
1H-Tetrazole		288-94-8	5000	400	☆☆
1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7	5000	CUM ⁴ 100g	☆
Cyanogen chloride		560-77-4	10000	15	☆☆
Cyanogen	[Ethanedinitrile]	460-19-5	10000	45	☆☆
Dichlorosilane	[Silane, dichloro-]	4109-96-0	10000	45	☆☆
Trifluorocholethylene	[Ethene, chlorotrifluoro]	79-38-9	10000	500	☆☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5	10000	-	☆ ☆
Trichlorosilane	[Silane, trichloro-]	10025-78-2	10000	-	☆ ☆
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4	10000	-	☆ ☆
Arsenic trichloride	[Arsenous trichloride]	7784-34-1	15000	2.2	☆ ☆
Boron tribromide		10294-334	-	45	☆ ☆
Bromine trifluoride		7787-71-5	-	45	☆ ☆
Perchloryl fluoride		7616-94-6	-	45	☆ ☆
2-Chloroethylchloro-methylsulfide		2625-76-5	-	CUM ⁴ 100g	☆
Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7	-	CUM ⁴ 100g	☆
Chlorosoman	[o-Pinacolyl methylphosphonochloridate]	7040-57-5	-	CUM ⁴ 100g	☆
DF	[Methyl phosphonyl difluoride]	676-99-3	-	CUM ⁴ 100g	☆
Bis(2-chloroethylthio)methane		63869-13-6	-	CUM ⁴ 100g	☆
Bis(2-chloroethylthiomethyl)ether		63918-90-1	-	CUM ⁴ 100g	☆
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8	-	CUM ⁴ 100g	☆
1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2	-	CUM ⁴ 100g	☆
Ethyl phosphonyl difluoride		753-98-0	-	CUM ⁴ 100g	☆
Isopropylphosphonyl difluoride		677-42-9	-	CUM ⁴ 100g	☆
O-Mustard (T)	[Bis(2-Chloroethylthioethyl)ether]	63918-89-8	-	CUM ⁴	☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
				100g	
Propylphosphonyl difluoride		690-14-2	-	CUM ⁴ 100g	☆
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57856-11-8	-	CUM ⁴ 100g	☆
Sesquimustard	[1,2-Bis(2-chloroethylthio)ethane]	3563-36-8	-	CUM ⁴ 100g	☆
Soman	[o-Pinacolyl methylphosphonofluoridate]	96-64-0	-	CUM ⁴ 100g	☆
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9	-	CUM ⁴ 100g	☆
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1	-	CUM ⁴ 100g	☆
HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2	-	CUM ⁴ 100g	☆
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8	-	CUM ⁴ 100g	☆
Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8	-	CUM ⁴ 100g	☆
Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1	-	CUM ⁴ 100g	☆
N,N-(2-diethylamino)ethanethiol		100-38-9	-	2.2	☆
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate		78-53-5	-	2.2	☆
Diethyl methylphosphonite		15715-41-0	-	2.2	☆
N,N-Diethyl phosphoramidic dichloride		1498-54-0	-	2.2	☆
N,N-(2-	N,N-diisopropyl-(beta)-aminoethane	5842-07-9	-	2.2	☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
diisopropylamino)ethanethiol	thiol				
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1	-	2.2	☆
N,N-(2-dimethylamino)ethanethiol		108-02-1	-	2.2	☆
N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramido-dichloridate]	677-43-0	-	2.2	☆
N,N-(2-dipropylamino)ethanethiol		5842-06-8	-	2.2	☆
N,N-Dipropyl phosphoramidic dichloride		40881-98-9	-	2.2	☆
Ethylphosphonothioic dichloride		993-43-1	-	2.2	☆
Isopropylphosphonothioic dichloride		1498-60-8	-	2.2	☆
Methylphosphonothioic dichloride		676-98-2	-	2.2	☆
Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine]	55-86-7	-	2.2	☆
Propylphosphonothioic dichloride		2524-01-8	-	2.2	☆
Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8	-	2.2	☆
Nitrogen Trioxide		10544-73-7	-	15	☆
Nitrosyl chloride		2696-92-6	-	15	☆
Oxygen difluoride		7783-41-7	-	15	☆
Hydrogen cyanide	[Hydrocyanic acid]	74-90-8	-	15	☆
Chlorine pentafluoride		13637-63-3	-	15	☆
Dinitrogen tetroxide		10544-72-6	-	15	☆
Germanium tetrafluoride		7783-58-6	-	15	☆
Selenium hexafluoride		7783-79-1	-	15	☆

Unified Program Guidance Letter 14-05: Attachment 1- Chemicals of Concern Prioritization Table

Chemicals of Concern	Synonym	Chemical Abstract Service (CAS) #	Threshold Quantity (TQ)	Theft Min. TQ ¹	Security Issue ³
Stibine		7803-52-3	-	15	☆
Germane		7782-65-2	-	45	☆
Bromine chloride		13863-41-7	-	45	☆
Carbonyl fluoride		353-50-4	-	45	☆
Chlorine trifluoride		7790-91-2	-	45	☆
Hexafluoroacetone		684-16-2	-	45	☆
Methylchlorosilane		993-00-0	-	45	☆
Silicon tetrafluoride		7783-61-1	-	45	☆
Trifluoroacetyl chloride		354-32-5	-	45	☆
Tungsten hexafluoride		7783-82-6	-	45	☆

¹Threshold Quantity (TQ) is denoted in pounds unless otherwise indicated.

²The least minimum TQ is reported when both state and federal governments regulate the same chemical.

³Different types of potential security issues as determined by the Department of Homeland Security. Each (☆) denotes one type of issue.

⁴All amounts of the chemical at the facility are counted cumulatively to a total of 100-grams, "CUM 100g."

⁵A Placarded Amount (APA)

*Highlighted cells show the determinate criteria for that chemical to be added to this table.