

Scheduled Chemicals Controlled by the Chemical Weapons Convention (CWC)

Schedule 1

A. <u>Toxic chemicals</u> :	(CAS registry number)
(1) O-Alkyl (equal to or less than C ₁₀ , incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-phosphonofluoridates	
e.g. Sarin : O-Isopropyl methylphosphonofluoridate	(107-44-8)
Soman : O-Pinacolyl methylphosphonofluoridate	(96-64-0)
(2) O-Alkyl (equal to or less than C ₁₀ , incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates	
e.g. Tabun :O-Ethyl N,N-dimethyl phosphoramidocyanidate	(77-81-6)
(3) O-Alkyl (H or equal to or less than C ₁₀ , incl. cycloalkyl) S-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts	
e.g. VX : O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate	(50782-69-9)
(4) Sulfur mustards :	
2-Chloroethylchloromethylsulfide	(2625-76-5)
Mustard gas : Bis(2-chloroethyl)sulfide	(505-60-2)
Bis(2-chloroethylthio)methane	(63869-13-6)
Sesquimustard :	
1,2-Bis(2-chloroethylthio)ethane	(3563-36-8)
1,3-Bis(2-chloroethylthio)-n-propane	(63905-10-2)
1,4-Bis(2-chloroethylthio)-n-butane	(142868-93-7)
1,5-Bis(2-chloroethylthio)-n-pentane	(142868-94-8)
Bis(2-chloroethylthiomethyl)ether	(63918-90-1)
O-Mustard : Bis(2-chloroethylthioethyl)ether	(63918-89-8)
(5) Lewisites :	
Lewisite 1 : 2-Chlorovinylchloroarsine	(541-25-3)
Lewisite 2 : Bis(2-chlorovinyl)chloroarsine	(40334-69-8)
Lewisite 3 : Tris(2-chlorovinyl)arsine	(40334-70-1)
(6) Nitrogen mustards :	
HN1 : Bis(2-chloroethyl)ethylamine	(538-07-8)
HN2 : Bis(2-chloroethyl)methylamine	(51-75-2)
HN3 : Tris(2-chloroethyl)amine	(555-77-1)
(7) Saxitoxin	(35523-89-8)
(8) Ricin	(9009-86-3)

- (8A) P-alkyl (H or equal to or less than C₁₀, incl. cycloalkyl) N-(1-(dialkyl(equal to or less than C₁₀ incl. cycloalkyl)amino)) alkylidene(H or equal to or less than C₁₀, incl. cycloalkyl) phosphonamidic fluorides and corresponding alkylated or protonated salts
- e.g. N-(1-(di-n-decylamino)-n-decylidene)-P-decylphosphonamidic fluoride (2387495-99-8)
Methyl-(1-(diethylamino)ethylidene)phosphonamidofluoridate (2387496-12-8)
- (8B) O-alkyl (H or equal to or less than C₁₀, incl. cycloalkyl) N-(1-(dialkyl(equal to or less than C₁₀, incl. cycloalkyl)amino)) alkylidene(H or equal to or less than C₁₀, incl. cycloalkyl) phosphoramidofluoridates and corresponding alkylated or protonated salts
- e.g. O-n-Decyl N-(1-(di-n-decylamino)-n-decylidene)phosphoramidofluoridate (2387496-00-4)
Methyl (1-(diethylamino)ethylidene)phosphoramidofluoridate (2387496-04-8)
Ethyl (1-(diethylamino)ethylidene)phosphoramidofluoridate (2387496-06-0)
- (8C) Methyl-(bis(diethylamino)methylene)phosphonamidofluoridate (2387496-14-0)
- (8D) Carbamates (quaternaries and bisquaternaries of dimethylcarbamoyloxypyridines)
- (a) Quaternaries of dimethylcarbamoyloxypyridines:
1-[N,N-dialkyl(equal to or less than C₁₀)-N-(n-(hydroxyl, cyano, acetoxy)alkyl(equal to or less than C₁₀)) ammonio]-n-[N-(3-dimethylcarbamoxy- α -picolinyl)-N,N-dialkyl(equal to or less than C₁₀) ammonio]decane dibromide (n=1-8)
e.g. 1-[N,N-dimethyl-N-(2-hydroxy)ethylammonio]-10-[N-(3-dimethylcarbamoxy- α -picolinyl)-N,N-dimethylammonio]decane dibromide (77104-62-2)
- (b) Bisquaternaries of dimethylcarbamoyloxypyridines:
1,n-Bis[N-(3-dimethylcarbamoxy- α -picolyl)-N,N-dialkyl(equal to or less than C₁₀) ammonio]-alkane-(2,(n-1)-dione) dibromide (n=2-12)
e.g. 1,10-Bis[N-(3-dimethylcarbamoxy- α -picolyl)-N-ethyl-N-methylammonio]decane-2,9-dione dibromide (77104-00-8)

B. Precursors :

- (9) Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides
- e.g. DF : Methylphosphonyldifluoride (676-99-3)
- (10) O-Alkyl (H or equal to or less than C₁₀, incl. cycloalkyl) O-2-dialkyl (Me, Et, n-Pr or i-Pr)-aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts
- e.g. QL : O-Ethyl O-2-diisopropylaminoethyl methylphosphonite (57856-11-8)
- (11) Chlorosarin : O-Isopropyl methylphosphonochloridate (1445-76-7)
- (12) Chlorosoman : O-Pinacolyl methylphosphonochloridate (7040-57-5)