

DEPARTMENT OF COMMERCE
Bureau of Export Administration
15 CFR Parts 710 through 722
[Docket No. 990611158-9311-02]
RIN 0694-AB06
Chemical Weapons Convention Regulations

SUPPLEMENT NO. 1 TO PART 712 - SCHEDULE 1 CHEMICALS

Schedule 1 Chemicals	CAS registry number
A. Toxic chemicals:	
(1) O-Alkyl ($\leq C_{10}$, 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 ($\leq C_{10}$, 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 $\leq C_{10}$, 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 Mustard gas: Bis(2-chloroethyl)sulfide Bis(2-chloroethylthio)methane Sesquimustard: 1,2-Bis(2-chloroethylthio)ethane 1,3-Bis(2-chloroethylthio)-n-propane 1,4-Bis(2-chloroethylthio)-n-butane 1,5-Bis(2-chloroethylthio)-n-pentane Bis(2-chloroethylthiomethyl)ether O-Mustard: Bis(2-chloroethylthioethyl)ether	(2625-76-5) (505-60-2) (63869-13-6) (3563-36-8) (63905-10-2) (142868-93-7) (142868-94-8) (63918-90-1) (63918-89-8)
(5) Lewisites: Lewisite 1: 2-Chlorovinylchloroarsine Lewisite 2: Bis(2-chlorovinyl)chloroarsine Lewisite 3: Tris(2-chlorovinyl)arsine	(541-25-3) (40334-69-8) (40334-70-1)
(6) Nitrogen mustards: HN1: Bis(2-chloroethyl)ethylamine HN2: Bis(2-chloroethyl)methylamine HN3: Tris(2-chloroethyl)amine	(538-07-8) (51-75-2) (555-77-1)

Source: http://www.cwc.gov/archives/regulations_cfr15_part-712-s1.html

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| (7) Saxitoxin | (35523-89-8) |
| (8) Ricin | (9009-86-3) |

B. Precursors:

- (9) Alkyl (Me, Et, n-Pr or i-Pr) phosphoryldifluorides

e.g.

DF: Methylphosphonyldifluoride	(676-99-3)
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| (10) O-Alkyl | (H | or $\leq C_{10}$, | 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)
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| (11) Chlorosarin: O-Isopropyl methylphosphonochloridate | (1445-76-7) |
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| (12) Chlorosoman: O-Pinacolyl methylphosphonochloridate | (7040-57-5) |
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Notes to Supplement No. 1:

Note 1: Note that the following Schedule 1 chemicals are controlled for export purposes under the Export Administration Regulations (see part 774 of the EAR, the Commerce Control List): O-Ethyl-2-diisopropylaminoethyl methylphosphonite (QL) (C.A.S. #57856-11-8), Ethylphosphonyl difluoride (C.A.S. #753-98-0), Methylphosphonyl difluoride (C.A.S. #676-99-3), Saxitoxin (35523-89-8), Ricin (9009-86-3).

Note 2: All Schedule 1 chemicals not listed in Note 1 to this Supplement are controlled for export purposes by the Office of Defense Trade Control of the Department of State under the International Traffic in Arms Regulations (22 CFR parts 120 through 130).