



**NOTE BY THE TECHNICAL SECRETARIAT**

**CONSOLIDATED TEXT OF ADOPTED CHANGES  
TO SCHEDULE 1 OF THE ANNEX ON CHEMICALS  
TO THE CHEMICAL WEAPONS CONVENTION**

**INTRODUCTION**

1. The Conference of the States Parties (hereinafter “the Conference”), at its Twenty-Fourth Session, adopted decisions C-24/DEC.4 and C-24/DEC.5 (both dated 27 November 2019), in which it approved, in accordance with paragraphs 4 and 5 of Article XV of the Chemical Weapons Convention (hereinafter “the Convention”), certain changes to Schedule 1 of the Annex on Chemicals to the Convention (hereinafter “the Annex on Chemicals”). Through Note Verbale NV/ODG/221841/19 (dated 10 December 2019), the Director-General subsequently notified all States Parties of the approval by the Conference of these changes to the Annex on Chemicals. By letter dated 10 December 2019, the Director-General also notified the Depositary accordingly. Pursuant to subparagraph 5(g) of Article XV of the Convention, the changes to the Annex on Chemicals shall enter into force for all States Parties 180 days after the date of the aforementioned notification by the Director-General, that is, on 7 June 2020.
2. The Annex to the present Note by the Technical Secretariat sets out a consolidated text of the adopted changes which will replace, on 7 June 2020, Schedule 1 of the Annex on Chemicals, including CAS registry numbers assigned to the toxic chemicals described therein (i.e., items Schedule 1.A (13) to (16)). This Note will be communicated to the Depositary.

Annex: Consolidated Text of the Changes to Schedule 1 of the Annex on Chemicals to the Chemical Weapons Convention



## Annex

### CONSOLIDATED TEXT OF THE CHANGES TO SCHEDULE 1 OF THE ANNEX ON CHEMICALS TO THE CHEMICAL WEAPONS CONVENTION

The following is a consolidated text of the changes to Schedule 1 of the Annex on Chemicals to the Chemical Weapons Convention (hereinafter “the Convention”) adopted by the Conference of the States Parties in decisions C-24/DEC.4 and C-24/DEC.5 (both dated 27 November 2019), including CAS registry numbers assigned to the toxic chemicals described therein. These changes enter into force on 7 June 2020.

#### B. SCHEDULES OF CHEMICALS

The following Schedules list toxic chemicals and their precursors. For the purpose of implementing this Convention, these Schedules identify chemicals for the application of verification measures according to the provisions of the Verification Annex. Pursuant to Article II, subparagraph 1 (a), these Schedules do not constitute a definition of chemical weapons.

(Whenever reference is made to groups of dialkylated chemicals, followed by a list of alkyl groups in parentheses, all chemicals possible by all possible combinations of alkyl groups listed in the parentheses are considered as listed in the respective Schedule as long as they are not explicitly exempted. A chemical marked "\*" on Schedule 2, part A, is subject to special thresholds for declaration and verification, as specified in Part VII of the Verification Annex.)

<u>Schedule 1</u>	(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 (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)
- (13) P-alkyl (H or  $\leq C_{10}$ , incl. cycloalkyl) N-(1-(dialkyl( $\leq C_{10}$ , incl. cycloalkyl)amino))alkylidene(H or  $\leq C_{10}$ , 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)
- (14) O-alkyl (H or  $\leq C_{10}$ , incl. cycloalkyl) N-(1-(dialkyl( $\leq C_{10}$ , incl. cycloalkyl)amino))alkylidene(H or  $\leq C_{10}$ , 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)
- (15) Methyl-(bis(diethylamino)methylene)phosphonamidofluoridate (2387496-14-0)
- (16) Carbamates (quaternaries and bisquaternaries of dimethylcarbamoyloxypyridines)  
 Quaternaries of dimethylcarbamoyloxypyridines:  
 1-[N,N-dialkyl( $\leq C_{10}$ )-N-(n-(hydroxyl, cyano, acetoxy)alkyl( $\leq C_{10}$ )) ammonio]-n-[N-(3-dimethylcarbamoyloxy- $\alpha$ -picolinyl)-N,N-dialkyl( $\leq C_{10}$ ) ammonio]decane dibromide (n=1-8)  
 e.g. 1-[N,N-dimethyl-N-(2-hydroxy)ethylammonio]-10-[N-(3-dimethylcarbamoyloxy- $\alpha$ -picolinyl)-N,N-dimethylammonio]decane dibromide (77104-62-2)

Bisquaternaries of dimethylcarbamoyloxy pyridines:

1,n-Bis[N-(3-dimethylcarbamoyloxy- $\alpha$ -picolyl)-N,N-dialkyl( $\leq C_{10}$ ) ammonio]-alkane-(2,(n-1)-dione) dibromide (n=2-12)

e.g. 1,10-Bis[N-(3-dimethylcarbamoyloxy- $\alpha$ -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  $\leq C_{10}$ , 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)

(11) Chlorosarin: O-Isopropyl methylphosphonochloridate (1445-76-7)

(12) Chlorosoman: O-Pinacolyl methylphosphonochloridate (7040-57-5)

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