

Schedule 1 Chemicals

Guidelines for Schedule 1

The following criteria shall be taken into account in considering whether a toxic chemical or precursor should be included in Schedule 1:

- It has been developed, produced, stockpiled or used as a chemical weapon as defined in Article II;
- It poses otherwise a high risk to the object and purpose of this Convention by virtue of its high potential for use in activities prohibited under this Convention because one or more of the following conditions are met:
 - It possesses a chemical structure closely related to that of other toxic

chemicals listed in Schedule 1, and has, or can be expected to have, comparable properties;

- It possesses such lethal or incapacitating toxicity as well as other properties that would enable it to be used as a chemical weapon;
 - It may be used as a precursor in the final single technological stage of production of a toxic chemical listed in Schedule 1, regardless of whether this stage takes place in facilities, in munitions or elsewhere;
- c. It has little or no use for purposes not prohibited under this Convention.



1A(1) O-Alkyl (<C10, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr) phosphonofluoridates



1A(2) O-Alkyl (<C10, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates



1A(3) O-Alkyl (H or <C10, 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

1A(5) : Lewisites



Lewisite 1:
2-Chlorovinyl dichloroarsine



Lewisite 2:
Bis(2-chlorovinyl)chloroarsine



Lewisite 3:
Tris(2-chlorovinyl)arsine

1A(6) : Nitrogen mustards



HN1:
Bis(2-chloroethyl)ethylamine



HN2:
Bis(2-chloroethyl)methylamine



HN3:
Tris(2-chloroethyl)amine



1A(7) : Saxitoxin



1A(8) : Ricin
(Scan the image)



1B(9) Alkyl (Me, Et, n-Pr or i-Pr) phosphoryldifluorides



1B(11) : Chlorosarin
O-Isopropyl methylphosphonochloridate



1B(10) O-Alkyl (H or <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



1B(12) : Chlorosoman
O-Pinacolyl methylphosphonochloridate

1A(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

Instructions

“Test your schedule knowledge”
Place the molecule on the correct schedule

Single bond: — 3.5 cm
Double bond: = 3 cm
Triple bond: ≡ 2.5 cm
Bond to H: — 2 cm

For molecular models:
C*: ● H: ○ S: ●
N: ● P*: ● As*: ●
Cl: ● F: ● O: ●

* in Augment app:
C: ● P: ● As: ●

You can check the answers by scanning QR codes with the Augment app. Download here:

AUGMENT



OPCW

Organisation for the Prohibition of Chemical Weapons