OCCUPATIONAL SAFETY AND HEALTH SERVICE

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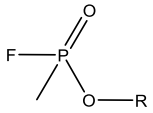
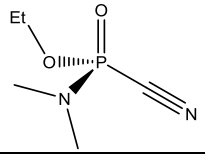
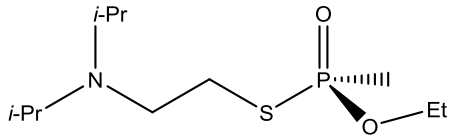
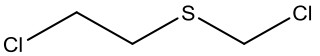
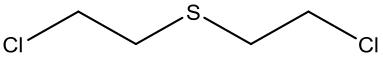
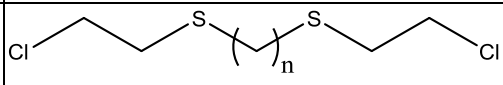
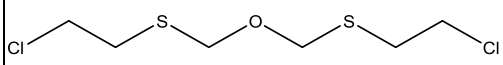
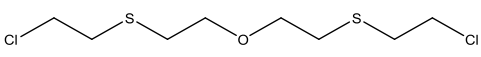
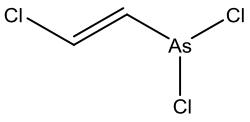
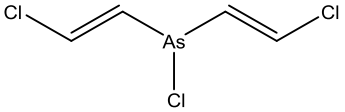
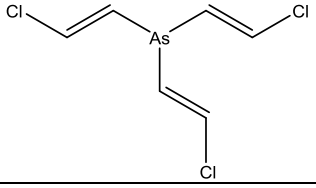
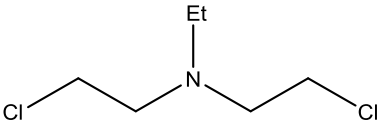
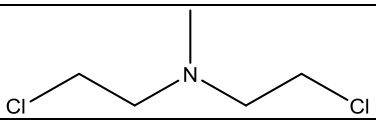
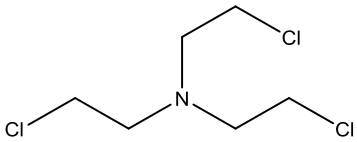
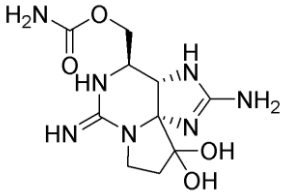
ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

List of prohibited substances and corresponding families

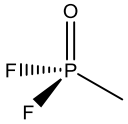
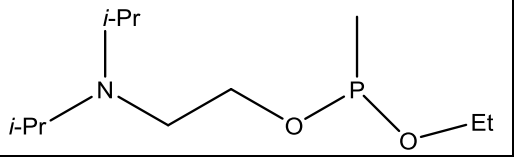
source: Swiss ordinance on chemicals: Ordonnance sur le contrôle des produits chimiques (OCPCh), RS 946.202.21

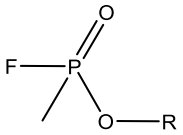
Toxic products:

Nom	CAS N°	Formula
O-Alkyl ($\leq C_{10}$, incl. cycloalkyl) Alkyl (Me, Et, *n*-Pr or *i*-Pr)-phosphono-fluoridates, *e.g.*:		
Sarin: O-Isopropyl methylphosphono-fluoridate:	107-44-8	R= *i*-Pr
Soman: O-Pinacolyl methylphosphono-fluoridate:	96-64-0	R= *t*-Bu
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-dimethylphos-phoramidocyanidate:	77-81-6	
O-Alkyl (H or $\leq C_{10}$, incl. cycloalkyl) 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-(diisopropylamino)-ethyl] methylphosphonothioate:	50782-69-9	
Sulfur mustards:		
2-Chloroethyl chloromethyl sulfide:	2625-76-5	
Yperite (mustard gas):		
Bis(2-chloroethyl)sulfide:	505-60-2	
		
Bis-(2-chloroethylthio)-methane:	63869-13-6	n=1
Yperite (Q)-Sesqui:		
1,2-Bis-(2-chloroethylthio)-ethane:	3563-36-8	n=2
Bis-1,3-(2-chloroethylthio)-n-propane:	63905-10-2	n=3
Bis-1,4-(2-chloroethylthio)-n-butane:	142868-93-7	n=4
Bis-1,5-(2-chloroethylthio)-n-pentane:	142868-94-8	n=5
Bis-(2-chloroethylthiomethyl)-ether:	63918-90-1	
Bis-(2-chloroethylthioethyl)-ether:	63918-89-8	

Lewisites: Lewisite 1: 2-Chlorovinyldichloroarsine:	541-25-3	
Lewisite 2: Bis(2-chlorovinyl)chloroarsine:	40334-69-8	
Lewisite 3: Tris(2-chlorovinyl)arsine:	40334-70-1	
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	
Saxitoxin:	35523-89-8	
Ricin:	9009-86-3	66 kDa glycoprotein

Precursors:

Nom	CAS N°	Formule
Alkyl (Me, Et, *n*-Pr or *i*-Pr) phosphonyldifluorides, *e.g.*: DF: Methylphosphonyldifluoride:	676-99-3	
O-Alkyl (H or ≤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	

Chloro Sarin: O-Isopropyl methylphosphonochloridate:	1445-76-7	 R= *i*-Pr
Chloro Soman: O-Pinacolyl methylphosphonochloridate:	7040-57-5	R= *t*-Bu

The chemical names and synonyms determine the submission for the application of verification measures. The CAS numbers is intended to facilitate the identification of compounds, but can not be accepted as the sole criterion. It should also be considered that several entries correspond to "families" with hundreds of substances whose chemical composition is similar.