



Federal Office of Economics and Export Control

Information on the Chemical Weapons Convention (CWC)

Restrictions on Chemicals of Schedule 1 for Research, Industry and Trade

The Chemical Weapons Convention is an international disarmament and control treaty that entered into force on 19.04.1997. In Germany it is implemented by the Act Implementing the CWC (CWCIA) and the Regulation Implementing the CWC (CWCIR). The CWCIR regulates the restrictions for Schedule 1 chemicals. Please take note of the following when dealing with the Schedule 1 chemicals listed below:

Prohibitions

In accordance with section 1 CWCIR, chemicals of Schedule 1 are subject to extensive prohibitions referring in particular to

- trade (import, export, transit) with states not party to the CWC and
- any handling of these chemicals (e.g. production, processing, purchase) by Germany nationals in states not party to the CWC.

German nationals at home and abroad are not allowed to establish facilities for the production of Schedule 1 chemicals with a production capacity of ≥ 1 t / year.

Permitted purposes

The handling of Schedule 1 chemicals is only permitted for research, medical, pharmaceutical or protective purposes on the basis of an authorisation.

Licensing requirements

Under sect. 2 para. 1 CWCIR a licence is required for persons

- who establish, operate or significantly change facilities of Schedule 1 chemicals, or
- who produce, process, trade in, sell, consume or acquire Schedule 1 chemicals, transfer them to other persons or otherwise exercise effective control over such chemicals or who import, export or perform the transit of such chemicals.

Exception

Production, processing and consumption for medical, pharmaceutical or scientific purposes involving total quantities below 100 g / year are exempt from these licensing requirements under sect. 2 para. 2 CWCIR. Exercising the effective control in connection with these activities and purposes is also exempt from the licensing requirement. Where this exception applies, the relevant activities have to be notified to BAFA by February 1st of the following year.

Authorisations shall be informally applied for at the Federal Office of Economics and Export Control. Details of the licensing procedure were published in the Federal Gazette (BAnz) No. 70 of 15 April 1997 with the CWC-Announcement No. 2 of BAFA of 4 April 1997.

Civil application of Schedule 1 chemicals

Chemicals of Schedule 1 may be important for the analysis of abandoned CW or in basic research – for instance nitrogen mustard in cancer research. But it is also possible that Schedule 1 substances relevant for licensing are generated as side-products in chemical synthesis. The following applications of controlled toxins are known:

Saxitoxin: Analysis of foodstuffs and potable water, examination of cellular sodium channels

Ricin: Production of immunotoxins, studies on membranes, development of special analysis and detection procedures

Note:

The violation of prohibitions, licensing and notification requirements may be punished with fines or as a criminal offence.



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Chemicals of Schedule 1

Chemical or family of chemical	CAS-No.
1. O-Alkyl($\leq C_{10}$ incl. cycloalkyl)-alkyl(Me, Et, n-Pr oder i-Pr)-phosphonofluoridates e.g. O-Isopropyl methylphosphonofluoridate (Sarin) O-Pinacolyl methylphosphonofluoridate (Soman)	107-44-8 96-64-0
2. O-Alkyl($\leq C_{10}$ incl. cycloalkyl)-N,N-di-alkyl(Me, Et, n-Pr oder i-Pr)-phosphoramidocyanidates e.g. O-Ethyl-N,N-dimethyl phosphoramido cyanidate (Tabun)	77-81-6
3. O-Alkyl(H or $\leq C_{10}$ incl. cycloalkyl)-S-2-dialkyl(Me, Et, n-Pr oder i-Pr)-aminoethyl alkyl-(Me, Et, n-Pr or i-Pr)-phosphonothiolates and corresponding alkylated or protonated salts e.g. O-Ethyl-S-2-diisopropyl-aminoethyl methyl phosphonothiolate (VX)	50782-69-9
4. Sulfur mustards: 2-Chlorethylchlormethylsulfide Bis-(2-chlorethyl)-sulfide (mustard gas) Bis-(2-chlorethylthio)-methane Sesquimustard (Q): 1,2-Bis-(2-chlorethylthio)-ethane Bis-1,3-(2-chlorethylthio)-n-propane Bis-1,4-(2-chlorethylthio)-n-butane Bis-1,5-(2-chlorethylthio)-n-pentane Bis-(2-chlorethylthiomethyl)-ether Bis-(2-chlorethylthioethyl)-ether (O-mustard)	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: 2-Chlorvinylidichlorarsine (Lewisite 1) Bis-(2-chlorvinyl)-chloroarsine (Lewisit 2) Tris-(2-chlorvinyl)-arsine (Lewisit 3)	541-25-3 40334-69-8 40334-70-1
6. Nitrogen mustards: Bis-(2-chlorethyl)-ethylamine (HN1) Bis-(2-chlorethyl)-methylamine (HN2) Tris-(2-chlorethyl)-amine (HN3)	538-07-8 51-75-2 555-77-1
7. Saxitoxin	35523-89-8
8. Ricin	9009-86-3
9. Alkyl(Me, Et, n-Pr or i-Pr)-phosphonyl-difluorides e.g. Methylphosphonyl difluoride (DF)	676-99-3
10. O-Alkyl(H or $\leq C_{10}$ incl. cycloalkyl)-O-2-dialkyl(Me, Et, n-Pr or i-Pr)-aminoethylalkyl-(Me, Et, n-Pr or i-Pr)-phosphonites and corresponding alkylated and protonated salts e.g. O-Ethyl-O-2-diisopropylaminoethylmethyl-phosphonite (QL)	57856-11-8
11. O-Isopropyl methyl phosphonochloridate (Chlorosarin)	1445-76-7
12. O-Pinacolylmethyl phosphonochloridate (Chlorosoman)	7040-57-5

In case of any other questions please contact BAFA:

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