

**REGULATION IMPLEMENTING  
THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT,  
PRODUCTION, STOCKPILING AND USE OF  
CHEMICAL WEAPONS AND ON THEIR DESTRUCTION  
(REGULATION IMPLEMENTING THE CHEMICAL WEAPONS CONVENTION -  
CWCIR)**

As of 20 November 1996

(Federal Law Gazette I, p. 1794)

On the basis of Article 2 (1) and (3) and Article 3 of the Act Implementing the Chemical Weapons Convention as of 2 August 1994 (Federal Law Gazette I p. 1954) the Federal Government has adopted the following Regulation:

Section 1  
**Prohibitions relating to Chemicals of Schedule 1**

It is prohibited

1. as regards chemicals included in Schedule 1 of Annex 1 to this Regulation
  - a) to import such chemicals from a state not party to the Convention
  - b) to export such chemicals to a state not party to the Convention,
  - c) to export such chemicals to a third State Party if these chemicals were imported from another State Party,
  - d) to perform the transit of such chemicals if the country of origin, country of destination, or another country of transit is a state not party to the Convention, or
  - e) to undertake activities under subparagraphs (a) to (d) as a German national abroad,
2. to establish facilities at home or as a German national abroad which are aimed at the production of Schedule 1 chemicals and which have a production capacity for these chemicals of at least one tonne per year,
3. as a German national in a state not party to the Convention to produce, process, trade in, sell, consume or acquire Schedule 1 chemicals, transfer them to another person or otherwise exercise effective control over such chemicals.

Section 2  
**Authorizations**

(1) An authorization shall be required for persons

1. who

- a) establish
- b) operate; or
- c) significantly change

facilities intended for the production of Schedule 1 chemicals,

2. who

- a) produce Schedule 1 chemicals,
- b) process, trade in, sell, consume or acquire Schedule 1 chemicals, transfer them to another person or otherwise exercise effective control over such chemicals; or who
- c) import, export or perform the transit of such chemicals;

3. export chemicals of Schedules 2 and 3 listed in Annex 1 to this Regulation to a state not party to the Convention,

provided that such action is not prohibited under section 1.

(2) An authorization under para 1 (1) and for the production, processing and consumption under para. 1 (2) a and b shall not be required if the production, processing or consumption at a facility only serves medical, pharmaceutical or research purposes and if the total amount per facility is less than 100 grams per year. In such a case the relevant activities have to be notified to the licensing authority by 1 February of a calendar year for the past calendar year. An authorization shall not be required if a person works under the supervision of or is employed by another person. In such a case, only the latter needs an authorization. The transport of Schedule 1 chemicals is not subject to authorization pursuant to para. 1 (2) b.

(3) Anyone who imports, exports or performs the transit of chemicals subject to authorization shall declare them to the customs authorities indicated on the authorization, by submitting this authorization and present the chemicals upon request.

### Section 3 Issue of an Authorization

(1) Without prejudice to other legal provisions, an authorization pursuant to section 2, para. 1 shall be granted if it is guaranteed that the performance of acts subject to licensing will not violate the obligations arising for the Federal Republic of Germany out of the Convention.

(2) The granting of an authorization may be made dependant on objective and subjective conditions, in particular on the reliability of the applicant.

(3) An export licence may be granted only if an official certificate of the country of destination is presented. It has to contain information on the intended use, the type and quantity of chemicals, the final consignee and the confirmation of the end-use in the country of destination.

(4) The authorization may be restricted in its content, provided with collateral clauses and declared as transferable.

(5) The provisions of the Foreign Trade and Payments Regulation concerning the application, return and retention of authorizations shall apply mutatis mutandis.

### Section 4 Obligation to Submit Declarations on Production, Processing and Consumption

(1) Anyone who operates a plant site

1. that produces more than 200 tonnes of discrete organic chemicals per year in accordance with Part I, 4 of Annex 2 to the Convention,
2. where at least one plant produces more than 30 tonnes of a PSF chemical per year in accordance with Part IX, 1 b of Annex 2 to the Convention,
3. where at least one plant produces more than 30 tonnes of a Schedule 3 chemical per year or is anticipated to produce in the next calendar year,
4. where at least one plant produces, processes or consumes more than one kilogram of a chemical listed in Schedule 2 item 3, 100 kilograms of a chemical listed in Schedule 2, items 1 or 2, or one tonne of a chemical listed in Schedule 2, items 4 to 14 per year or is anticipated to produce, process or consume in the next calendar year or
5. that produces more than 100 grams of a Schedule 1 chemical per year or is anticipated to produce in the next calendar year

is obliged to submit declarations pursuant to sections 5, 7 and 8.

(2) Operators of a plant site are exempt from the obligation to submit declarations pursuant to para. 1 (1) and (2) if, in the reference period, the plant site produced exclusively explosives or chemicals listed in Annex 2 to this Regulation consisting only of carbon and hydrogen.

## Section 5 Types of Declarations and Related Information

(1) Declarations under section 4 shall be new declarations for the current calendar year, annual declarations of past activities for the previous calendar year, annual declarations of anticipated activities for the following calendar year, or declarations of additionally planned activities in case of deviations related to the new declarations or annual declarations of anticipated activities. Declarations of past activities shall be submitted in all cases of section 4, para. 1, new declarations, annual declarations of anticipated activities and declarations of additionally planned activities shall be submitted in all cases of section 4, para. 1, (3) to (5).

(2) The declaration shall contain the following information on the plant site:

1. Name and address of the plant site,
2. Name of the operator,
3. in case of section 4, para.1 (2), the information whether at least one plant produced more than 200 tonnes of a PSF chemical,
4. in case of section 4, para. 1 (3) the information whether the plant site produced or is anticipated to produce more than 200 tonnes of a Schedule 3 chemical and is subject to declaration pursuant to para. 4 (3),
5. in case of section 4, para. 1 (4) the information whether at least one plant produced, processed or consumed more than 10 kilograms of a chemical listed in Schedule 2, item 3, one tonne of a chemical listed in Schedule 2, items 1 or 2, or 10 tonnes of a chemical listed in Schedule 2, items 4 to 14, or is anticipated to do so,
6. in the cases of section 4, para.1 (3) and (4) the number of all plants subject to declaration, in the case of section 4, para. 1 (1) the approximate number, in the case of section 4, para.1 (2) the exact number of plants which produced the chemicals covered by the respective paragraphs,
7. in the cases of section 4, para. 1 (1) and (2) the main activities of the plant site,
8. in case of section 4, para. 1 (5) on the whole area relevant for the production of a chemical listed in Schedule 1,
  - a) for the annual declaration of anticipated activities any expected changes with regard to previously submitted technical descriptions and anticipated modifications of the purpose of use,

- b) for the annual declaration of past activities changes made with regard to previously submitted technical descriptions and modifications of the purpose of use,

(3) The declaration shall include the following information on each plant designated in section 4, para. 1 (3) and (4):

1. Name and location within the plant site, including that of the building or structure,
2. Name of the operator,
3. Main activity of the plant,
4. In case of section 4, para. 1 (4) additional information, i.e.
  - a) details on the type of plant in accordance with Part VII (7) d of Annex 2 to the Convention,
  - b) for each Schedule 2 chemical the production capacity that exceeds or is anticipated to exceed the threshold specified in section 4, para. 1 (4).

(4) The declaration shall include the following information on the chemicals designated in section 4, para.1:

1. in the case of section 4, para.1 (1) the aggregate amounts of discrete organic chemicals produced by the plant site in ranges from 200 to less than 1,000 tonnes, 1,000 to 10,000 tonnes and more than 10,000 tonnes,
2. in the case of section 4, para. 1 (2) the aggregate amount of PSF chemicals produced by each plant in ranges from 30 to less than 200 tonnes, 200 to less than 1,000 tonnes, 1,000 to 10,000 tonnes and more than 10,000 tonnes,
3. In the case of section 4, para. 1 (3) for each Schedule 3 chemical exceeding the threshold specified in that paragraph,
  - a) the chemical name, common or trade name used by the facility, structural formula and Chemical Abstracts Service registry number, if assigned,
  - b) the purposes for which the chemical was or is to be produced,
  - c) the quantity which was produced or is anticipated to be produced by the plant site in ranges from 30 to less than 200 tonnes, 200 to less than 1,000 tonnes, 1,000 tonnes to less than 10,000 tonnes, 10,000 tonnes to 100,000 tonnes and more than 100,000 tonnes,
4. In case of section 4, para. 1 (4) for each Schedule 2 chemical exceeding the threshold specified in that paragraph,
  - a) the chemical name, common or trade name used by the facility, structural formula and Chemical Abstracts Service registry number, if assigned,

- b) the exact purposes in accordance with Part VII, section 8 (e) of Annex 2 to the Convention for which the chemical was or will be produced, processed and consumed with a specification of the product type,
  - c) for the declaration of past activities, the amount produced, processed, consumed, imported and exported by the plant site,
  - d) for new declarations, declarations of anticipated activities and of additionally planned activities, the total amount anticipated to be produced, processed or consumed by the plant site as well as the anticipated time periods required for production, processing or consumption,
5. in case of section 4, para. 1 (5) for each Schedule 1 chemical
- a) the chemical name, structural formula and Chemical Abstracts Service registry number, if assigned
  - b) for the declaration of past activities
    - aa) the total amount produced and consumed as well as the purpose of consumption,
    - bb) in any case of transfer of the effective control within the domestic territory, the amount, purpose, name and address of consignee,
    - cc) the maximum amount stored in the course of one year and on the last day of the year,
    - dd) in case of production for protective purposes, the procedure applied,
    - ee) the quantity, chemical name and Chemical Abstracts Service registry number, if assigned, of each precursor listed in Schedules 1 to 3 and used for production,
  - c) for the new declaration, the annual declaration of anticipated activities and of additionally planned activities, the total amount anticipated to be produced by the plant site, the anticipated time periods for production and the purpose of production.

Section 6  
**Obligation to Submit Declarations on Imports and Exports**

(1) Anyone who imports or exports

1. more than one tonne of a Schedule 3 chemical, 100 kilograms of a chemical listed in Schedule 2, items 4 to 10, 10 kilograms of a chemical listed in Schedule 2, items 1 or 2 or 100 grams of a chemical listed in Schedule 2, item 3 per year or
2. Schedule 1 chemicals

is obliged to submit declarations pursuant to para. 2 and sections 7 and 8.

(2) The declaration shall include information on each chemical

1. the chemical name, common or trade name, structural formula and Chemical Abstracts Service registry number, if assigned,
2. the name of the importer or exporter,
3. details on the total amount imported or exported in the past calendar year specifying the countries involved as to country of origin, transit or destination,
4. in any case of the import or export of Schedule 1 chemicals, additional information, i. e. date, quantity, purpose as well as name and address of the supplier or consignee.

Section 7  
**Other Provisions on Declarations**

(1) The declarations of past activities and declarations pursuant to section 6 shall be submitted by 1 February of the new calendar year.

(2) In the case of section 4, para. 1 (5) the annual declarations of anticipated activities shall be submitted by 1 September, in the cases of section 4, para. 1 (3) and (4) by 15 September of a calendar year, new declarations and declarations of additionally planned activities not later than 20 days before the beginning of the activity subject to declaration.

(3) Declarations pursuant to sections 5 and 6 for Schedule 3 chemicals shall be specified exactly to 100 kilograms, for Schedule 2, items 4 to 14 to ten kilograms, for Schedule 2, items 1 and 2 to one kilogram, for Schedule 2, item 3 to ten grams and Schedule 1 to one miligram. Sentence 1 shall not apply to declarations to be submitted in quantities pursuant to section 5, para. 4 (1) to (3).

Section 8

## **Formal Requirements**

(1) Applications for the issuance of authorizations pursuant to section 2 and the declarations pursuant to sections 4 and 6 shall be submitted in the form of a written declaration to the Federal Export Office.

(2) The Federal Export Office may prescribe the use of specific forms through announcement in the Federal Gazette. It may permit to present declarations in other ways, particularly by electronic data exchange.

### Section 9

#### **Exemptions for Low Concentrations**

Sections 1, 2, 4 and 6 shall not apply if the concentration of Schedule 1 chemicals in a mixture is less than 1 per cent, or of Schedules 2 or 3 chemicals is less than 30 per cent in a mixture.

### Section 10

#### **Special Provisions on Declarations**

(1) Anyone who operates a plant site shall provide declarations if

1. at least one plant produced a chemical listed in Schedule 3
2. at least one plant produced a chemical listed in Schedule 2 or
3. it produced a Schedule 1 chemical

after 1 January 1946 for purposes other than those permitted pursuant to Article 1 (2) of the Act Implementing the Chemical Weapons Convention. For the calendar years from 1946 declarations have to be submitted within a period of six months from the date stipulated in section 15 sentence 2.

(2) The declaration shall contain the following information:

1. on the plant site
  - a) data pursuant to section 5, para. 2 (1) and (2),
  - b) in the case of paragraph 1 sentence 1 (3) comprehensive and exact information is to be provided on the whole area relevant for the production of a Schedule 1 chemical for the purpose mentioned there; such information shall be in accordance with Part V (1) of Annex 2 to the Convention and include the location, building, technical equipment and processes, production capacity, activities as well as measures referring to structures and plant technology,
2. on the plant

- a) in the case of paragraph 1 sentence 1, (1) and (2) information pursuant to section 5, para. 3 (1) to (3),
  - b) in the case of paragraph 1 sentence 1, (2) additional information pursuant to section 5, para. 3 (4),
3. for each chemical designated in paragraph 1 sentence 1
- a) in the cases of paragraph 1 sentence 1, (1) and (2) information on the chemical name, the common or trade name used by the facility, structural formula and - if assigned - the Chemical Abstracts Service registry number, beginning and end of the respective production periods for the purpose mentioned in paragraph 1, sentence 1, the total amount produced per production period, the place to which the chemical was delivered and - if known- the final product manufactured there.
  - b) in the case of paragraph 1 sentence 1 (3) comprehensive and exact information as well as details on production periods and quantities in accordance with Part V, (1) of Annex 2 to the Convention.

In other respects, section 7, para. 3 and section 8 shall apply mutatis mutandis.

#### Section 11

#### **Federal Armed Forces and other Authorities**

No licence under section 2 shall be required for the Federal Armed Forces, Federal Police and the customs offices as well as other authorities responsible for maintaining public security. The obligation to submit declarations under this regulation shall not apply to the Federal Armed Forces.

#### Section 12

#### **Administrative Offences**

An administrative offence in accordance with Article 15, para.1 (1) of the Act Implementing the Chemical Weapons Convention shall be deemed to be committed by any person who, wilfully or by negligence,

1. notwithstanding section 2, para. 2 sentence 1, provides no, false or incomplete information about an activity, or fails to provide information in due time,
2. notwithstanding sections 4, 6 and 14, para. 2 fails to submit declarations, or submits them incorrectly, incompletely or not in due time or
3. notwithstanding section 2, para. 3 does not declare or present chemicals or fails to declare or present them properly.

#### Section 13

#### **Criminal Offences**

(1) Pursuant to Article 16 para. 1 (2) of the Act Implementing the Chemical Weapons Convention anyone will be punished who

1. notwithstanding the prohibition under section 1, (1), imports, exports or performs the transit of Schedule 1 chemicals or performs such activities as a German national abroad,
2. notwithstanding the prohibition under section 1, (2), establishes a facility at home or as a German national abroad,
3. establishes a facility without the authorization required under section 2, para. 1 (1) a) or
4. notwithstanding the prohibition under section 1, (3), produces, processes, trades in, sells, consumes, acquires, transfers to another person Schedule 1 chemicals or exercises the actual control of them as a German national in a country not Party to the Convention.

(2) In accordance with Article 16, para. 1 (3) of the Act Implementing the Chemical Weapons Convention, anyone will be punished who

1. operates a facility without the authorization required under section 2, para. 1 (1) b or
2. produces Schedule 1 chemicals without the authorization required under section 2, para. 1 (2) a.

(3) In accordance with Article 16, para. 2 of the Act Implementing the Chemical Weapons Convention anyone shall be punished who

1. subjects a facility to essential changes without the authorization required under section 2 para. 1 (1) c,
2. processes, trades in, sells, consumes, acquires Schedule 1 chemicals, transfers them to other persons, exercises the effective control of or imports and exports, or transits such chemicals without the authorization required under section 2, para. 1 (2) b and c,
3. exports chemicals of Schedules 2 and 3 to a state not Party to the Convention without the authorization required under section 2, para. 1 (3).

**Section 14**  
**Transitional Provisions**

(1) Anyone who exercises effective control of Schedule 1 chemicals at the time defined in section 15, sentence 1 has to apply for the authorization required under section 2 para. 1 (2) b within a period of three months from that date.

(2) Declarations pursuant to sections 4 and 6 shall be submitted for the first time by anyone who met the requirements

1. of section 4, para. 1 (4) in one of the three calendar years,
2. of the other provisions of section 4, para. 1 or section 6, para. 1 in the calendar year

prior to the entry into force of the Convention. Declarations for the calendar years mentioned in sentence 1 above shall be made by 1 March 1997.

Section 15  
**Entry into force**

Sections 1, 2 para. 1 (2) and (3), section 12 para. 3 and section 13 shall enter into force on the date the Convention enters into force pursuant to its Article XXI and which shall be published in the Federal Law Gazette pursuant to section 21 (2) of the Act Implementing the Chemical Weapons Convention. In other respects, this regulation shall enter into force one day after its promulgation.

Bonn, 20 November 1996

T h e F e d e r a l C h a n c e l l o r

T h e F e d e r a l M i n i s t e r f o r F o r e i g n A f f a i r s

T h e F e d e r a l M i n i s t e r o f E c o n o m i c s

## Schedules of Chemicals\*

Registration number according to  
Chemical Abstracts Service  
(CAS Number)

### Schedule 1

#### A. Toxic Chemicals

(1) O-Alkyl ( $\leq C_{10}$ , incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr)-  
phosphonofluoridates, e.g.

Sarin: O-Isopropylmethylphosphonofluoridate.....(107-44-8)

Soman: O-Pinacolylmethylphosphonofluoridate.....(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-dimethylphosphoramidocyanidate.....(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-diisopropyl-aminoethyl 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:

---

\* 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.

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)

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) phosphonites and corresponding alkylated or protonated salts

e.g. QL:

O-Ehtyl O-2-diisopropylaminoethyl-methylphosphonite.....(57856-11-8)

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

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

**Schedule 2:**

A. Toxic chemicals:

(1) Amiton: 0,0-Diethyl S-[2-(diethylamino)-ethyl]-phosphorothiolate

and corresponding alkylated or protonated salts.....(78-53-5)

(2) PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene.....(382-21-8)

(3) BZ: 3-Quinuclidinyl benzilate (\*).....(6581-06-2)

B. Precursors:

(4) Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso) group but not further carbon atoms.

e.g. Methylphosphonyl dichloride .....(676-97-1)  
Dimethyl methylphosphonate .....(756-79-6)

Exemption:

Fonofos: O-Ethyl-S-phenyl ethylphosphonothio-thionate.....(944-22-9)

(5) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides

(6) Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr)-  
phosphoramidates

(7) Arsenic trichloride .....(7784-34-1)

(8) 2,2-Diphenyl-2-hydroxyacetic acid.....(76-93-7)

(9) Quinuclidine-3-ol.....(1619-34-7)

(10) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and  
corresponding protonated salts

(11) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and  
corresponding protonated salts

Exemptions:

N,N-Dimethylaminoethanol  
and corresponding protonated salts.....(108-01-0)

N,N-Diethylaminoethanol  
and corresponding protonated salts.....(100-37-8)

(12) N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-  
thiols and corresponding protonated salts

(13) Thiodiglycol: Bis-(2-hydroxyethyl)-sulfide.....(111-48-8)

(14) Pinacolyl alcohol: 3,3-Dimethylbutane-2-ol.....(464-07-3)

### Schedule 3

#### A. Toxic chemicals:

- (1) Phosgene: Carbonyl dichloride .....(75-44-5)
- (2) Cyanogen chloride .....(506-77-4)
- (3) Hydrogen cyanide.....(74-90-8)
- (4) Chloropicrin: Trichloronitromethane.....(76-06-2)

#### B. Precursors:

- (5) Phosphorus oxychloride.....(10025-87-3)
- (6) Phosphorus trichloride.....(7719-12-2)
- (7) Phosphorus pentachloride.....(10026-13-8)
- (8) Trimethyl phosphite.....(121-45-9)
- (9) Triethyl phosphite.....(122-52-1)
- (10) Dimethyl phosphite.....(868-85-9)
- (11) Diethyl phosphite.....(762-04-9)
- (12) Sulfur monochloride.....(10025-67-9)
- (13) Sulfur dichloride.....(10545-99-0)
- (14) Thionyl chloride.....(7719-09-7)
- (15) Ethyldiethanolamine.....(139-87-7)
- (16) Methyldiethanolamine.....(105-59-9)
- (17) Triethanolamine.....(102-71-6)

## Annex 2

### Explosives pursuant to section 4, para. 2

Ammonium picrate	$C_6H_6O_7N_4$
Azotetrazole metallic salts, e.g.	$C_2N_{10}Me^*x H_2O$
1,2,4-Butanetrioltrinitrate	$C_4H_7N_3O_8$
Cyanuric triacid	$C_3N_{12}$
Di-(aminoguanidine)-azo-tetrazole	$C_4H_{16}N_{18}O$
Diazodinitrophenol	$C_6H_2N_4O_5$
2,4-Dichloro-1,3,5-trinitrobenzole	$C_6HN_3O_6Cl_2$
Diethanolaminotrinitrate	$C_4H_{10}N_4O_9$
Diethyleneglycoldinitrate (Nitrodiglycol)	$C_4H_8N_2O_7$
Diglyceroltetranitrate	$C_8H_{10}N_4O_{13}$
Dinitroaminophenol (picramic acid)	$C_6H_5N_3O_5$
Dinitrodimethyloxamid	$C_4H_6N_4O_6$
Dinitrodioxyethyl-oxamid-dinitrate (Dinitrodiethanoloxamididinitrate)	$C_6H_8N_6O_{12}$
Dinitrophenol metallic salts	$C_6H_3N_2O_5Me^*$
Dinitrophenylglycerinetherdinitrate	$C_9H_8N_4O_{11}$
Dinitrophenylglycerinethermononitrate	$C_9H_9N_3O_9$
Dinitrophenylglycolethernitrate	$C_8H_7N_3O_8$
Dinitroresorcinol salts of heavy metals, e. g.	$C_6H_2N_2O_6Me^*$
Dioxyethylnitraminodinitrate	$C_4H_8N_4O_8$
Dipentaerythritolhexanitrate	$C_{10}H_{16}N_6O_{19}$
Erythritoltetranitrate	$C_4H_6N_4O_{12}$
Ethylendiamindinitrate	$C_2H_{10}N_4O_6$
Ethylendinitramine	$C_2H_6N_4O_4$
Ethylnitrate	$C_2H_5NO_3$
Fulminating silver	$AgCNO$
Glycerin-acetate-dinitrate	$C_5H_6N_2O_8$
Glycerinmonochlorohydrin-dinitrate (Dinitromonochlorohydrin)	$C_3H_5ClN_2O_6$
Glycerindinitrate	$C_3H_6N_3O_7$
Glycerin-formiate-dinitrate (Dinitroformine)	$C_4H_6N_2O_8$
Glycerin-nitrolactate-dinitrate	$C_6H_9N_3O_{11}$
Glyceroltrinitrate (Nitroglycerine)	$C_3H_5N_3O_9$
Glycidic nitrate (Nitroglycide)	$C_3H_5NO_4$
Glycoldinitrate (Nitroglycol)	$C_2H_4N_2O_6$
Guanidineperchlorate	$CH_6N_3O_4Cl$
Guanidine picrate	$C_7H_8N_6O_7$
Hexamethylenetriperoxiddiamine	$C_6H_{12}N_2O_6$
Hexanitrozobenzole	$C_{12}H_4N_8O_{12}$
Hexanitrodiphenyl	$C_{12}H_4N_6O_{12}$

Hexanitrodiphenylether (Hexanitrodiphenyloxid)	$C_{12}H_4N_6O_{13}$
Hexanitrodiphenylamine (Hexyl)	$C_{12}H_5N_7O_{12}$
Hexanitrophenylamino potassium	$C_{12}H_4N_7O_{12}K$
Hexanitrodiphenylglycerinethermononitrate	$C_{15}H_9N_7O_{17}$
Hexanitrodiphenyloxamid	$C_{14}H_6N_8O_{14}$
Hexanitrodiphenylsulfid	$C_{12}H_4N_6O_{12}S$
Hexanitrodiphenylsulfon	$C_{12}H_4N_6O_{14}S$
Hexanitrosobenzene	$C_6N_8O_6$
Hexanitrostilbene	$C_{14}H_6N_6O_{12}$
Lead Dinitrocresolate	$C_{14}H_{10}N_4O_{10}Pb$
Lead Trinitroresorcinat	$C_6HN_3O_8Pb$
Mannitol hexanitrate	$C_6H_8N_6O_{18}$
Mercuric fulminate (Fulminating mercury)	$Hg(CNO)_2$
Methylnitrate	$CH_3NO_3$
Methyltrimethylolmethantrinitrate (Methrioltrinitrate)	$C_5H_9O_9N_3$
Monoethanolamindinitrate	$C_2H_7N_3O_6$
Mononitroresorcinol salts of heavy metals	$C_6H_3NO_4Me^*$
Nitroisobutylglyceroltrinitrate	$C_4H_6N_4O_{11}$
Nitromethylpropandioldinitrate	$C_4H_7N_3O_8$
Pentaerythrite tetranitrate (Pentyl, PETN, Pentrit)	$C_5H_8N_4O_{12}$
Potassiumdinitrobenzofuroxane	$C_6H_3N_4O_7K$
1,3-Propandioldinitrate	$C_3H_6N_2O_6$
Tetramethyltetranitramine	$C_4H_8N_8O_8$
Tetramethylolcyclohexanolpentanitrate	$C_{10}H_{15}N_5O_{15}$
Tetramethylolcyclohexanoltetranitrate	$C_{10}H_{14}N_4O_{13}$
Tetramethylolcyclopentanolpentanitrate	$C_9H_{13}N_5O_{15}$
Tetramethylolcyclopentanontetranitrate	$C_9H_{12}N_4O_{13}$
Tetranitroacridone	$C_{13}H_5N_5O_9$
Tetranitroaniline	$C_6H_3N_5O_8$
Tetranitroanisole	$C_7H_4N_4O_9$
Tetranitrodibenzo-1,3a,4,6a-tetraazapentalen	$C_{12}H_4N_8O_8$
Tetranitronaphthaline	$C_{10}H_4N_4O_8$
1-(5'-Tetrazolyl)-4-guanyl-tetrazene hydrate (Tetracene)	$C_2H_8N_{10}O$
Triaminotrinitrobenzene	$C_6H_6O_6N_6$
1,3,5-Trichloro-2,4,6-trinitrobenzene	$C_8Cl_3N_3O_6$
Triethylenglycoldinitrate	$C_6H_{12}N_2O_8$
Trimethyltrinitramine (Hexogene)	$C_3H_6N_6O_6$
Trinitroethanol	$C_2H_3N_3O_7$
Trinitroaniline	$C_6H_4N_4O_6$
Trinitroanisole	$C_7H_5N_3O_7$
Trinitrobenzenesulphonic acid	$C_6H_3N_3O_9S$
Trinitrobenzoic acid	$C_7H_3N_3O_8$
Trinitrobenzene	$C_6H_3N_3O_6$

Trinitrochlorobenzene	$C_6H_2ClN_3O_6$
Trinitrofluorenone	$C_{13}H_5N_3O_7$
Trinitro-m-cresol	$C_7H_5N_3O_7$
Trinitro-m-cresol metallic acids	$C_7H_4N_3O_7Me^*$
1,3,8-Trinitronaphthalene	$C_{10}H_5N_3O_6$
Trinitrophenetole	$C_8H_7N_3O_7$
Trinitrophenol (Picric acid)	$C_6H_3N_3O_7$
Trinitrophenol metallic acids (Picrates)	$C_8H_2N_3O_7Me^*$
Trinitrophenylethanolnitraminenitrate	$C_8H_6N_6O_{11}$
Trinitrophenylglycerinetherdinitrate	$C_9H_7N_5O_{13}$
Trinitrophenylglycolethernitrate	$C_8H_6N_4O_{10}$
Trinitrophenylmethylnitramine	$C_7H_5N_5O_8$ (Tetryl)
Trinitroresorcin	$C_6H_3N_3O_8$
Trinitrotoluene	$C_7H_5N_3O_6$
Trinitroxylol	$C_8H_7N_3O_6$
Urea nitrate	$CH_5N_3O_4$
Zirconium dinitroaminophenolate	$C_6H_4N_3O_5Zr$

---

\*Me = Metal