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## GOVERNMENT NOTICE GOEWERMENTSKENNISGEWING

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### DEPARTMENT OF TRADE AND INDUSTRY DEPARTEMENT VAN HANDEL EN NYWERHEID

No. 18

3 February 2010

#### NON-PROLIFERATION OF WEAPONS OF MASS DESTRUCTION ACT, 1993 (ACT NO. 87 OF 1993)

#### DECLARATION OF CERTAIN CHEMICAL GOODS AS CONTROLLED GOODS AND CONTROL MEASURES APPLICABLE TO SUCH GOODS

##### Declaration

1. I, Dr Rob Davies, Minister of Trade and Industry, under section 13(1) of the Non-Proliferation of Weapons of Mass Destruction Act, 1993 (Act No. 87 of 1993), and on the recommendation of the South African Council for the Non-Proliferation of Weapons of Mass Destruction, hereby declare the goods listed in paragraph 4 of, and in the annexures to, this notice to be controlled goods.
  
2. I hereby—
  - (a) in terms of section 13(2)(e) of the Act and pursuant to South Africa's obligations under the Chemical Weapons Convention, prohibit—
    - (i) the development, production, acquisition, stockpiling or retention of chemical weapons or the transfer, whether direct or indirect, of chemical weapons to any person;
    - (ii) the use of chemical weapons;
    - (iii) engagement in any military preparations to use chemical weapons;
    - (iv) the assistance, encouragement or induction, in any way, of any person to engage in any activity prohibited under the Chemical Weapons Convention;

- (v) the use of riot control agents as a method of warfare; and
  - (vi) the export or re-export of the toxic chemicals or precursors listed in Annexures A and B, whether in substantially pure form or in a mixture with any other substance, to countries which are not States Parties to the Chemical Weapons Convention;
- (b) in terms of section 13(2)(b) of the Act, determine that the import, export, re-export or transit (including transshipment) of the controlled goods, as listed in Annexures A, B and C and Part A of Annexure E to this notice, shall take place under a permit issued by the Council: A permit is not required for quantities of 5 milligrams or less of saxitoxin, if the transfer is made for medical or diagnostic purposes, in which case a notification to that effect shall be made to the Council before the transfer;
- (c) in terms of section 13(2)(b) of the Act, determine that the export and re-export of the controlled goods, as listed in Annexure D, Part B of Annexure E and Annexure F to this notice, shall take place under a permit issued by the Council;
- (d) in terms of section 13(2)(b) of the Act, determine that the internal (intranational) transfer of chemicals listed in Annexure A to this notice, shall take place under a permit issued by the Council;
- (e) in terms of section 13(2)(c) of the Act, determine that the Council may require a State-to-State assurance or an end-user or end-use certificate for the export or re-export of the controlled goods listed in the annexures to this notice;
- (f) in terms of section 13(2)(c) of the Act, determine that the Council shall require an end-user or end-use certificate for the export or re-export of the controlled goods listed in Annexure C to this notice, whether in substantially pure form or in a mixture with any other substance in a concentration of greater than or equal to 30 per cent by weight, to countries which are not States Parties to the Chemical Weapons Convention; and

- (g) in terms of section 13(2)(f) of the Act, determine that the manufacture of, and provision of services with respect to, controlled goods listed in Annexure A to this notice shall take place under a permit issued by the Council.

### **Definitions**

3. In this notice any word or expression to which a meaning has been assigned in the Act or the Chemical Weapons Convention, as the case may be, shall have the meaning so assigned and, unless the context otherwise indicates—

**"antiplant agent"** means any chemical listed in Annexure F to this notice, which can defoliate plants or which can destroy crops or plants or which can sterilise the soil to prevent plant growth;

**"Chemical Weapons Convention"** means the Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction, as ratified by the Government of the Republic of South Africa on 14 September 1995 and published for general information as Government Notice No. 754 on 2 May 1997;

**"development"** means all phases before production, and includes conceptualisation, research, analysis, testing, configuration or pilot production schemes;

**"discrete organic chemical"** means any chemical belonging to a class of chemical compounds consisting of all compounds of carbon, except for its oxides, sulphides and metal carbides or carbonates, identifiable by chemical structure, by structural formula, if known, and by the Chemical Abstracts Service (CAS) registry number, if assigned, and not contained in the chemicals listed in Annexures A, B or C to this notice;

**"harassing agent"** means any toxic chemical, which is not among the toxic chemicals listed in Annexures A, B, C or D to this notice, which can produce rapidly in humans sensory irritation or disabling physical effects, which disappear within a short time following the termination of exposure;

**"manufacture"**, in relation to a chemical, includes development and production;

**"PSF discrete organic chemical"** means any discrete organic chemical containing one or more of the elements phosphorus, sulphur or fluorine;

**"services"** includes freight forwarding, storing and stockpiling (if not part of the manufacture and transfer processes), transporting, maintaining (repairing, overhauling, refurbishing), trading, consulting, disposing, and technical assistance;

**"the Act"** means the Non-Proliferation of Weapons of Mass Destruction Act, 1993 (Act No. 87 of 1993);

**"transfer"** means the change of ownership or custodianship or change in the location of controlled goods, whether or not they cross an international border;

**"use"**, in relation to a chemical, means the depletion of reserves by adding a chemical to formulations, as a constituent in a mixture, in a scrubber of unwanted chemicals, as a starting material in a process, as a component of a reaction or as a catalyst.

#### **Controlled goods**

4. The following goods are controlled goods at the control thresholds indicated in paragraph 5 of this notice:

- (a) The toxic chemicals and precursors listed in Annexures A, B and C, which may be used for purposes that are not prohibited as indicated in paragraph 9 of Article II of the Chemical Weapons Convention: Provided that the types and quantities are consistent with such purposes, whether in substantially pure form or in a mixture. Whenever, in Annexures A and B, reference to groups of dialkylated chemicals is 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 to be controlled goods, except those explicitly exempted in Annexure B;
- (b) the toxic chemicals listed in Annexure D, whether in substantially pure form or in a mixture;

- 
- (c) the harassing and riot control agents listed in Annexure E, whether in substantially pure form or in a mixture, except—
- (i) goods containing capsaicin packaged for retail sale for personal use or packaged for individual use; and
  - (ii) goods containing harassing or riot control agents packaged for food production or medical purposes;
- (d) the antiplant agents listed in Annexure F, whether in substantially pure form or in a mixture;
- (e) any chemical facility that produces, acquires, consumes or stores any quantity of the toxic chemicals and precursors listed in Annexure A. As indicated in paragraph 8 of Part VI of the Verification Annex of the Chemical Weapons Convention, the production of the toxic chemicals and precursors listed in Annexure A shall only be carried out at a single small-scale facility. The toxic chemicals and precursors shall only be applied for research, medical, pharmaceutical or protective purposes, and the aggregate amount of such chemicals for such purposes at any given time should be less than or equal to one metric tonne;
- (f) any chemical facility that produced, processed or consumed during the previous calendar year or anticipates to produce, process or consume in the next calendar year 10 grams or more of the toxic chemical BZ listed in Annexure B, one kilogram or more of the toxic chemicals Amiton or PFIB listed in Annexure B or 10 kilograms or more of any precursor listed in Annexure B;
- (g) any chemical facility that produced during the previous calendar year or anticipates to produce in the next calendar year 100 kilograms or more of any toxic chemical listed in Annexure C;
- (h) any chemical facility that produced by chemical synthesis, including biochemical or biologically mediated processes, an aggregate quantity of 100 metric tonnes or more of any number of discrete organic chemicals

or their salts, or an aggregate quantity of 15 metric tonnes or more of any single PSF discrete organic chemical or its salts, during the previous calendar year. For the purposes of this paragraph, polymeric and oligomeric substances are not regarded as discrete organic chemicals. For the purposes of this paragraph, chemical facilities that—

- (i) produce explosives or hydrocarbons exclusively, are exempted;
  - (ii) produce polymeric and oligomeric substances exclusively, are exempted;
  - (iii) produce any discrete organic chemicals or PSF discrete organic chemicals, as well as hydrocarbons, explosives or polymeric and oligomeric substances, are not exempted; and
  - (iv) process chemicals or blend or formulate chemicals into products such as insecticides, paints or detergents, where no chemical reactions take place, are exempted;
- (i) the technology required for the production of the controlled goods listed in Annexure A and the toxic chemicals listed in Annexure B; and
  - (j) services with regard to the controlled goods listed in Annexure A.

### **Control thresholds**

5. (1) The control thresholds of controlled goods shall be as follows:

- (a) All quantities of the toxic chemicals and precursors listed in Annexure A, whether in substantially pure form or in a mixture with any other substance;
- (b) an aggregate quantity per calendar year of—
  - (i) the toxic chemical BZ listed in Annexure B greater than or equal to 10 grams, whether in substantially pure form or in a mixture with



- any other substance in a concentration greater than or equal to one per cent by weight;
- (ii) the toxic chemicals Amiton and PFIB listed in Annexure B greater than or equal to one kilogram, whether in substantially pure form or in a mixture with any other substance in a concentration greater than or equal to one per cent by weight; or
  - (iii) the precursors listed in Annexure B greater than or equal to 10 kilograms, whether in substantially pure form or in a mixture with any other substance in a concentration greater than or equal to 30 per cent by weight;
- (c) an aggregate quantity per calendar year of the toxic chemicals and precursors listed in Annexure C greater than or equal to 100 kilograms, whether in substantially pure form or in a mixture with any other substance in a concentration greater than or equal to 30 per cent by weight;
  - (d) an aggregate quantity per calendar year of all discrete organic chemicals or their salts produced within a chemical plant site greater than or equal to 100 metric tonnes in substantially pure form;
  - (e) an aggregate quantity per calendar year of all PSF discrete organic chemicals or their salts produced within a chemical facility greater than or equal to 15 metric tonnes in substantially pure form;
  - (f) an aggregate quantity per calendar year of the toxic chemicals listed in Annexure D greater than or equal to one metric tonne, whether in substantially pure form or in a mixture with any other substance in a concentration greater than or equal to 30 per cent by weight;
  - (g) an aggregate quantity per calendar year of the riot control agents listed in Part A of Annexure E greater than or equal to 100 kilograms, whether in substantially pure form or in a mixture with any other substance;

(h) any quantity per calendar year of the harassing agents listed in Part B of Annexure E, whether in substantially pure form or in a mixture with any other substance, except in products identified as consumer goods packaged for retail sale for personal use or packaged for individual use; and

(i) any quantity per calendar year of the antiplant agents listed in Annexure F, whether in substantially pure form or in a mixture with any other substance.

(2) For the purposes of subparagraphs (1)(a), (b) and (c), all threshold quantities shall include quantities of controlled chemicals generated as by-products or as components of waste or effluent streams in a chemical production process.

(3) Products containing chemicals listed in Annexure B may be exported to countries that are not States Parties to the Chemical Weapons Convention: Provided that the said products contain—

(a) one per cent or less of the toxic chemicals listed in Annexure B; or

(b) 10 per cent or less of the precursors listed in Annexure B; and

are identified as consumer goods packaged for retail sale for personal use or packaged for individual use.

(4) Products containing chemicals listed in Annexure C may be exported without a permit to countries that are not States Parties to the Chemical Weapons Convention: Provided that the said products contain less than 30 per cent of a chemical listed in Annexure C and are identified as consumer goods packaged for retail sale for personal use or packaged for individual use.

#### **Application forms**

6. Application forms for permits contemplated in paragraph 2 of this notice may be obtained from any of the following addresses:

(a) Postal address:

The Secretariat  
South African Council for the Non-Proliferation of Weapons of Mass  
Destruction  
Private Bag X84  
PRETORIA  
0001; or

(b) physical address:

The Secretariat  
South African Council for the Non-Proliferation of Weapons of Mass  
Destruction  
77 Meintjies Street  
Sunnyside  
PRETORIA.

**Repeal**

7. Government Notice No. 152 of 29 January 2003 is hereby repealed.



**DR ROB DAVIES, MP**  
**MINISTER OF TRADE AND INDUSTRY**

**ANNEXURE A****Schedule 1 of the Chemical Weapons Convention**

(Chemical Abstracts Service  
Registry Number)

**A. Toxic chemicals:**

- (1) O-Alkyl (equal to or less than C<sub>10</sub>, including cycloalkyl) alkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphonofluoridates, such as

Sarin: O-Isopropyl methylphosphonofluoridate (107-44-8)

Soman: O-Pinacolyl methylphosphonofluoridate (96-64-0)

- (2) O-Alkyl (equal to or less than C<sub>10</sub>, including cycloalkyl) N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidocyanidates, such as

Tabun: O-Ethyl N,N-dimethylphosphoramidocyanidate (77-81-6)

- (3) O-Alkyl (H or equal to or less than C<sub>10</sub>, including cycloalkyl) S-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-aminoethyl alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonothiolates and corresponding alkylated or protonated salts, such as

VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (50782-69-9)

- (4) Sulphur mustards:

2-Chloroethylchloromethylsulphide (2625-76-5)

- |                       |   |               |
|-----------------------|---|---------------|
|                       | Mustard gas: Bis(2-chloroethyl)sulphide   | (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)   |
| <b>B. Precursors:</b> |   |               |
| (9)                   | Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl)<br>phosphonyl-difluorides, such as   |               |
|                       | DF: Methylphosphonyldifluoride  | (676-99-3)    |
|                       | Ethylphosphonyl difluoride  | (753-98-0)    |
| (10)                  | O-Alkyl (H or equal to or less than C <sub>10</sub> , including<br>cycloalkyl) O-2-dialkyl (Methyl, Ethyl, n-Propyl<br>or Isopropyl)-aminoethyl alkyl (Methyl, Ethyl, |               |

n-Propyl or Isopropyl) phosphonites and corresponding alkylated or protonated salts, such as

- QL: O-Ethyl O-2-diisopropylaminoethyl Methylphosphonite (57856-11-8)
- (11) Chlorosarin:  
O-Isopropyl methylphosphono-chloridate (1445-76-7)
- (12) Chlorosoman:  
O-Pinacolyl methylphosphono-chloridate (7040-57-5)

**ANNEXURE B****Schedule 2 of the Chemical Weapons Convention**

(Chemical Abstracts Service  
Registry Number)

**A. Toxic chemicals:**

- (1) Amiton:  
O,O-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, such as

Methylphosphonyl dichloride	(676-97-1)
Dimethyl methylphosphonate	(756-79-6)
Diethyl ethylphosphonate	(78-38-6)
Ethylphosphinyl dichloride	(1498-40-4)
Ethylphosphonyl dichloride	(1066-50-8)
Methylphosphinyl dichloride	(676-83-5)
Ethylphosphinyl difluoride	(430-78-4)
Methylphosphinyl difluoride	(753-59-3)
Methylphosphonic acid	(993-13-5)
Methylphosphonothioic dichloride	(676-98-2)

	Diethyl methylphosphonite	(15715-41-0)
	Dimethyl ethylphosphonate	(6163-75-3)
	<b>Exemption:</b>	
	Fonofos:	
	O-Ethyl S-phenyl ethylphosphonothiolothionate	(944-22-9)
(5)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidic dihalides	
(6)	Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) N,N-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphoramidates, such as	
	Diethyl N,N-dimethylphosphoramidate	(2404-03-7)
(7)	Arsenic trichloride	(7784-34-1)
(8)	2,2-Diphenyl-2-hydroxyacetic acid (Benzilic acid)	(76-93-7)
(9)	Quinuclidin-3-ol	(1619-34-7)
(10)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethyl-2-chlorides and corresponding protonated salts, such as	
	N,N-Diisopropyl-(beta)-aminoethyl chloride	(96-79-7)
	N,N-Diisopropyl-2-aminoethyl chloride hydrochloride	(4261-68-1)
	N,N-Dimethylaminophosphoryl dichloride	(676-98-2)
(11)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethane-2-ols and corresponding protonated salts, such as	
	N,N-Diisopropyl-(beta)-aminoethanol	(96-80-0)



**Exemptions:**

- |      |   |             |
|------|---|-------------|
|      | N,N-Dimethylaminoethanol  | (108-01-0)  |
|      | and corresponding protonated salts  |             |
|      | Protonated salts of N,N-Diethylaminoethanol   | (100-37-8)  |
| (12) | N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethane-2-thiols and corresponding protonated salts, such as |             |
|      | N,N-Diisopropyl-(beta)-aminoethane thiol  | (5842-07-9) |
| (13) | Thiodiglycol:   |             |
|      | Bis(2-hydroxyethyl)sulphide   | (111-48-8)  |
| (14) | Pinacolyl alcohol:  |             |
|      | 3,3-Dimethylbutan-2-ol  | (464-07-3)  |

**ANNEXURE C****Schedule 3 of the Chemical Weapons Convention**

(Chemical Abstracts Service  
Registry Number)

**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 phosphate       | (122-52-1)   |
| (10) | Dimethyl phosphite       | (868-85-9)   |
| (11) | Diethyl phosphite        | (762-04-9)   |
| (12) | Sulphur monochloride     | (10025-67-9) |
| (13) | Sulphur 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)  |

**ANNEXURE D**

(Chemical Abstracts Service  
Registry Number)

**Toxic chemicals:**

- |      |                              |             |
|------|------------------------------|-------------|
| (1)  | 3-Hydroxy-1-methylpiperidine | (3554-74-3) |
| (2)  | Potassium fluoride           | (7789-23-3) |
| (3)  | 2-Chloroethanol              | (107-07-3)  |
| (4)  | Dimethylamine                | (124-40-3)  |
| (5)  | Dimethylamine hydrochloride  | (506-59-2)  |
| (6)  | Hydrogen fluoride            | (7664-39-3) |
| (7)  | Methyl benzilate             | (76-89-1)   |
| (8)  | 3-Quinuclidone               | (3731-38-2) |
| (9)  | Pinacolone                   | (75-97-8)   |
| (10) | Potassium cyanide            | (151-50-8)  |
| (11) | Potassium bifluoride         | (7789-29-9) |
| (12) | Ammonium bifluoride          | (1341-49-7) |
| (13) | Sodium bifluoride            | (1333-83-1) |
| (14) | Sodium fluoride              | (7681-49-4) |
| (15) | Sodium cyanide               | (143-33-9)  |

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(16)	Phosphorus pentasulphide	(1314-80-3)
(17)	Di-isopropylamine	(108-18-9)
(18)	Diethylaminoethanol	(100-37-8)
(19)	Sodium sulphide	(1313-82-2)
(20)	Triethanolamine hydrochloride	(637-39-8)
(21)	Triisopropyl phosphite	(116-17-6)
(22)	O,O-Diethyl phosphorothioate	(2465-65-8)
(23)	O,O-Diethyl phosphorodithioate	(298-06-6)
(24)	Sodium hexafluorosilicate	(16893-85-9)

**ANNEXURE E**

(Chemical Abstracts Service  
Registry Number)

**A. Riot Control Agents**

Riot control agents including the following:

- |     |   |             |
|-----|---|-------------|
| (1) | $\alpha$ -Bromobenzeneacetonitrile,<br>(Bromobenzyl cyanide), (CA)                            | (5798-79-8) |
| (2) | 2-Chloro-1-phenyl-ethanone, (Phenylacetyl chloride),<br>( $\omega$ -chloroacetophenone), (CN) | (532-27-4)  |
| (3) | [(2-chlorophenyl)-methylene] propanedinitrile,<br>(o-Chlorobenzylidenemalonitrile), (CS)      | (2698-41-1) |
| (4) | Dibenz(b,f)-1,4-oxazepine, (CR)   | (257-07-8)  |

**B. Harassing Agents**

Harassing agents including the following:

- |     |  |             |
|-----|--|-------------|
| (1) | Diphenylaminochloroarsine, (10-Chloro-5,10-dihydrophen-<br>arsazine), (Phenarsazine chloride), (Adamsite), (DM)                                | (578-94-9)  |
| (2) | N-nonanylmorpholine, (MPA)   | (5299-64-9) |
| (3) | trans-8-Methyl-N-vanillyl-6-nonenamide, (Capsaicin), (Pepper<br>Spray), [N-(4-hydroxy-3-methoxy benzyl)-8-methyl-non-trans-6-enamide],<br>(OC) | (404-86-4)  |
| (4) | Ethyl bromoacetate, (EBA)  | (105-36-2)  |

- (5) Pelargonic acid vanillylamide (2444-46-4)
- (6) Phenyl chloride (108-90-7)
- (7) Mixture of OC and CS

**ANNEXURE F**

(Chemical Abstracts Service  
Registry Number)

**Anti-plant agents:**

Anti-plant agents as follows:

- |     |   |             |
|-----|---|-------------|
| (1) | Butyl 2-chloro-4-fluorophenoxyacetate (LNF)     | (1692-85-9) |
| (2) | Mixtures of 2,4,5-T and 2,4-D where:            |             |
|     | 2,4,5-T: 2,4,5-Trichlorophenoxyacetic acid      | (93-76-5)   |
|     | 2,4-D: 2,4-Dichlorophenoxyacetic acid           | (94-75-7)   |
| (3) | Mixtures of Picloram where:                     |             |
|     | Picloram: 4-Amino-3,5,6-trichloropicolinic acid | (1918-02-1) |
| (4) | Dimethylarsinic acid (Cacodylic acid)           | (75-60-5)   |



**WET OP DIE NIE-PROLIFERASIE VAN WAPENS VAN GROOTSKAALSE  
VERNIETIGING, 1993 (WET NO. 87 VAN 1993)**

**VERKLARING VAN SEKERE CHEMIESE GOEDERE TOT BEHEERDE GOEDERE  
EN BEHEERMAATREËLS WAT OP SODANIGE GOEDERE VAN TOEPASSING IS**

**Verklaring**

1. Ek, Dr Rob Davies, Minister van Handel en Nywerheid, kragtens artikel 13(1) van die Wet op die Nie-proliferasie van Wapens van Groot skaalse Vernietiging, 1993 (Wet No. 87 van 1993), en op aanbeveling van die Suid-Afrikaanse Raad vir die Nie-proliferasie van Wapens van Groot skaalse Vernietiging, verklaar hierby die goedere gelys in paragraaf 4 van, en in die aanhangsels in Engels aangehaal by, hierdie kennisgewing tot beheerde goedere.
  
2. Ek—
  - (a) verbied hierby, ingevolge artikel 13(2)(e) van die Wet en ooreenkomstig Suid-Afrika se verpligtinge kragtens die Chemiese wapenskonsensie—
    - (i) die ontwikkeling, produksie, verkryging, opberging of retensie van chemiese wapens of die oordrag, hetsy regstreeks of onregstreeks, van chemiese wapens na 'n persoon;
    - (ii) die gebruik van chemiese wapens;
    - (iii) die meedoen aan enige militêre voorbereidings om chemiese wapens te gebruik;
    - (iv) bystand aan en die aanmoediging of inlywing van 'n persoon, op enige

wyse, om mee te doen aan 'n aktiwiteit wat kragtens die Chemiese wapenskonsensie verbied word;

- (v) die gebruik van onlusbeheeragense as 'n metode van oorlogvoering;  
en
  - (vi) die uitvoer of heruitvoer van die toksiese chemikalieë of voorlopers gelys in Aanhangsels A en B, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof, na lande wat nie Statepartye by die Chemiese wapenskonsensie is nie;
- (b) bepaal hierby, ingevolge artikel 13(2)(b) van die Wet, dat die invoer, uitvoer, heruitvoer of deurvoer (ook oorlaai) van die beheerde goedere gelys in Aanhangsels A, B en C en Deel A van Aanhangsel E by hierdie kennisgewing slegs mag plaasvind kragtens 'n permit wat deur die Raad uitgereik is: 'n Permit word nie vereis nie vir saksitoksien in hoeveelhede van vyf milligram of minder, indien die oordrag vir mediese of diagnostiese doeleindes gedoen word, in welke geval 'n kennisgewing ten dien effekte vóór oordrag aan die Raad gelewer moet word;
- (c) bepaal hierby, ingevolge artikel 13(2)(b) van die Wet, dat die uitvoer en heruitvoer van die beheerde goedere gelys in Aanhangsel D, Deel B van Aanhangsel E en Aanhangsel F by hierdie kennisgewing, slegs mag plaasvind kragtens 'n permit wat deur die Raad uitgereik is;
- (d) bepaal hierby, ingevolge artikel 13(2)(b) van die Wet, dat die interne (intranasionale) oordrag van chemikalieë gelys in Aanhangsel A by hierdie kennisgewing slegs mag plaasvind kragtens 'n permit wat deur die Raad uitgereik is;
- (e) bepaal hierby, ingevolge artikel 13(2)(c) van die Wet, dat die Raad 'n Staat-tot-Staat-versekering of 'n eindgebruiker- of eindgebruiksertifikaat kan vereis vir die uitvoer of heruitvoer van die beheerde goedere gelys in die aanhangsels by hierdie kennisgewing;
- (f) bepaal hierby, ingevolge artikel 13(2)(c) van die Wet, dat die Raad 'n

eindgebruiker- of eindgebruiksertifikaat vereis vir die uitvoer of heruitvoer van die beheerde goedere gelys in Aanhangsel C by hierdie kennisgewing, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie groter as of gelyk aan 30 persent aan gewig, na lande wat nie Statepartye by die Chemiese wapenskonsensie is nie; en

- (g) bepaal hierby, ingevolge artikel 13(2)(f) van die Wet, dat die vervaardiging van, en die verskaffing van dienste ten opsigte van, die beheerde goedere gelys in Aanhangsel A by hierdie kennisgewing slegs mag plaasvind kragtens 'n permit wat deur die Raad uitgereik is.

### Woordoms krywing

3. In hierdie kennisgewing het 'n uitdrukking waaraan die Wet of die Chemiese wapenskonsensie 'n betekenis heg, na gelang van die geval, daardie betekenis en, tensy uit die samehang anders blyk, beteken—

**"antiplantagens"** 'n chemikalie gelys in Aanhangsel F by hierdie kennisgewing, wat plante kan ontblaar of wat oeste of plante kan vernietig of wat die grond steriel kan maak om plantgroei te voorkom;

**"Chemiese wapenskonsensie"** die *Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on their Destruction*, wat op 14 September 1995 deur die Regering van die Republiek van Suid-Afrika bekragtig en op 2 Mei 1997 vir algemene inligting as Goewermentskennisgewing No. 754 gepubliseer is;

**"dienste"** ook vragversending, -berging en -opberging (indien nie deel van die vervaardigings- en oordragprosesse nie), vervoer, onderhoud (herstel, opknapping, heropknapping), handel, oorlegpleging, beskikking en tegniese bystand;

**"die Wet"** die Wet op die Nie-proliferasie van Wapens van Groot skaalse Vernietiging, 1993 (Wet No. 87 van 1993);

**"diskrete organiese chemikalie"** 'n chemikalie wat behoort tot 'n klas chemiese verbindings wat bestaan uit alle verbindings van koolstof, uitgesonderd sy oksiede, sulfiede en metaalkarbiede of -karbonate, wat geïdentifiseer kan word deur chemiese

strukture, deur struktuurformules, indien bekend, en deur die *Chemical Abstracts Service* (CAS)-registernommer, indien toegeken, en wat nie vervat is in die chemikalieë wat in Aanhangsels A, B of C by hierdie kennisgewing gelys is nie;

**"FSF- diskrete organiese chemikalie"** enige diskrete organiese chemikalie wat een of meer van die elemente fosfor, swael of fluoor bevat;

**"gebruik"**, met betrekking tot 'n chemikalie, die uitputting van voorrade deur 'n chemikalie by te voeg in formulerings, as 'n bestanddeel in 'n mengsel, in 'n skropper van afvalchemikalieë, as 'n uitgangstof in 'n proses, as komponent van 'n reaksie of as katalisator;

**"ontwikkeling"** alle fases vóór produksie, ook konseptualisering, navorsing, analise, toetsing, konfigurasie of loodsproduksieskemas;

**"oordrag"** die verandering van besit of bewaring, of verandering in die ligging van beheerde goedere, of dit 'n internasionale grens kruis al dan nie;

**"teisteragens"** 'n toksiese chemikalie, wat nie by die chemikalieë gelys in Aanhangsels A, B, C of D by hierdie kennisgewing voorkom nie, wat by mense vinnig 'n sensoriese irritasie of belemmerende fisieke effekte teweegbring wat binne 'n kort tyd na die beëindiging van blootstelling verdwyn;

**"vervaardiging"**, met betrekking tot 'n chemikalie, ook ontwikkeling en produksie.

### **Beheerde goedere**

4. Die volgende goedere is beheerde goedere by die beheerdrempels wat in paragraaf 5 van hierdie kennisgewing uiteengesit is:

- (a) Die toksiese chemikalieë en voorlopers gelys in Aanhangsels A, B en C, wat gebruik kan word vir doeleindes wat nie verbied is nie wat vermeld word in paragraaf 9 van Artikel II van die Chemiesewapenskonvensie: Met dien verstande dat die soorte en hoeveelhede van sodanige chemikalieë en voorlopers, hetsy in stofflik suiwer vorm of in 'n mengsel, bestaanbaar is met sodanige doeleindes. Wanneer daar in Aanhangsels

A en B verwys word na groepe gedialkileerde chemikalieë, wat gevolg word deur 'n lys alkielgroepe tussen hakies, word alle chemikalieë moontlik deur alle moontlike kombinasies van die alkielgroepe wat tussen hakies gelys word, as beheerde goedere beskou, uitgesonderd daardie wat uitdruklik in Aanhangsel B vrygestel word;

- (b) die toksiese chemikalieë gelys in Aanhangsel D, hetsy in stoflik suiwer vorm of in 'n mengsel;
- (c) die teister- en onlusbeheeragense gelys in Aanhangsel E, hetsy in stoflik suiwer vorm of in 'n mengsel, uitgesonderd—
  - (i) goedere wat kapsaïen bevat wat verpak is vir kleinhandelsverkoop vir persoonlike gebruik of verpak is vir individuele gebruik; en
  - (ii) goedere wat teister- of onlusbeheeragense bevat wat verpak is voedselproduksie- of geneeskundige doeleindes;
- (d) die antiplantagense gelys in F, hetsy in stoflik suiwer vorm of in 'n mengsel;
- (e) enige chemiese fasiliteit wat 'n hoeveelheid toksiese chemikalieë en voorlopers gelys in Aanhangsel A produseer, verkry, verbruik of berg. Soos gemeld in paragraaf 8 van Deel VI van die Verifikasieaanhangsel van die Chemiesewapenskonsensie, mag die produksie van die toksiese chemikalieë en voorlopers gelys in Aanhangsel A slegs by 'n enkele kleinskaalfasiliteit onderneem word. Die toksiese chemikalieë en voorlopers mag slegs vir navorsings-, geneeskundige, farmaseutiese of beskermende doeleindes gebruik word, en die totale hoeveelheid sodanige chemikalieë vir sodanige doeleindes op 'n gegewe tydstip moet kleiner as of gelyk wees aan een metrieke ton;
- (f) 'n chemiese fasiliteit wat in die vorige kalenderjaar 10 gram of meer van die toksiese chemikalie BZ gelys in Aanhangsel B, een kilogram of meer van die toksiese chemikalieë Amiton of PFIB gelys in Aanhangsel B of 10

kilogram of meer van 'n voorloper gelys in Aanhangel B geproduseer, verwerk of verbruik het of verwag om dit in daardie hoeveelhede in die daaropvolgende kalenderjaar te produseer, te verwerk of te verbruik;

- (g) 'n chemiese fasiliteit wat in die vorige kalenderjaar 100 kilogram of meer van 'n toksiese chemikalie gelys in Aanhangel C geproduseer het of wat verwag om dit in daardie hoeveelheid in die daaropvolgende kalenderjaar te produseer;
- (h) 'n chemiese fasiliteit wat in die vorige kalenderjaar deur chemiese sintese, ook biochemies of biologies bemiddelde prosesse, 'n totale hoeveelheid van 100 metrieke ton of meer van enige getal diskrete organiese chemikalieë of hulle soute of 'n totale hoeveelheid van 15 metrieke ton of meer van 'n enkele FSF- diskrete organiese chemikalie of sy soute geproduseer het. Vir die doel van hierdie paragraaf, word polimeriese en oligomeriese stowwe nie as diskrete organiese chemikalieë beskou nie. Vir die doel van hierdie paragraaf, word chemiese fasiliteite wat—
  - (i) uitsluitlik plofstowwe of waterkoolstowwe produseer, vrygestel;
  - (ii) uitsluitlik polimeriese en oligomeriese stowwe produseer, vrygestel;
  - (iii) enige diskrete organiese chemikalieë of FSF- diskrete organiese chemikalieë of FSF- diskrete organiese chemikalieë, asook waterkoolstowwe, plofstowwe of polimeriese en oligomeriese stowwe produseer, nie vrygestel nie; en
  - (iv) chemikalieë verwerk, of meng of formuleer tot produkte soos insekdoders, verwe of skoonmaakmiddels, waar geen chemiese reaksies plaasvind nie, vrygestel;
- (i) die tegnologie benodig vir die produksie van die beheerde goedere gelys in Aanhangel A en die toksiese chemikalieë gelys in Aanhangel B; en
- (j) dienste met betrekking tot die beheerde goedere gelys in Aanhangel A.

**Beheerdrempels**

5. (1) Die beheerdrempels van beheerde goedere is soos volg:

- (a) Alle hoeveelhede van die toksiese chemikalieë en voorlopers gelys in Aanhangsel A, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof;
- (b) 'n totale hoeveelheid per kalenderjaar van—
  - (i) die toksiese chemikalie BZ gelys in Aanhangsel B, van groter as of gelyk aan 10 gram, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie hoër as of gelyk aan een persent aan gewig;
  - (ii) die toksiese chemikalieë Amiton en PFIB gelys in Aanhangsel B, van groter as of gelyk aan een kilogram, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie hoër as of gelyk aan een persent aan gewig; of
  - (iii) die voorlopers gelys in Aanhangsel B, van groter as of gelyk aan 10 kilogram, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie hoër as of gelyk aan 30 persent aan gewig;
- (c) 'n totale hoeveelheid per kalenderjaar van die toksiese chemikalieë en voorlopers gelys in Aanhangsel C, van groter as of gelyk aan 100 kilogram, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie hoër as of gelyk aan 30 persent aan gewig;
- (d) 'n totale hoeveelheid per kalenderjaar van alle diskrete organiese chemikalieë of hulle soute geproduseer binne 'n chemieseaanlegterrein, van groter as of gelyk aan 100 metrieke ton in stoflik suiwer vorm;
- (e) 'n totale hoeveelheid per kalenderjaar van alle FSF- diskrete organiese chemikalieë of hulle soute geproduseer binne 'n chemiese fasiliteit, van groter as of gelyk aan 15 metrieke ton in stoflik suiwer vorm;

- (f) 'n totale hoeveelheid per kalenderjaar van die toksiese chemikalieë gelys in Aanhangsel D, van groter as of gelyk aan een metrieke ton, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof in 'n konsentrasie hoër as of gelyk aan 30 persent aan gewig;
- (g) 'n totale hoeveelheid per kalenderjaar van die onlusbeheeragense gelys in Deel A van Aanhangsel E, van groter as of gelyk aan 100 kilogram, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof;
- (h) enige hoeveelheid per kalenderjaar van die teisteragense gelys in Deel B van Aanhangsel E, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof, uitgesonderd in produkte wat geïdentifiseer is as verbruikersgoedere wat verpak is vir kleinhandelsverkoop vir persoonlike gebruik, of verpak is vir individuele gebruik; en
- (i) enige hoeveelheid per kalenderjaar van die antiplantagense gelys in Aanhangsel F, hetsy in stoflik suiwer vorm of in 'n mengsel met 'n ander stof.

(2) Vir die doeleindes van subparagrafe (1)(a), (b) en (c), sluit alle drempelhoeveelhede hoeveelhede in van beheerde chemikalieë wat gegeneer is as neweprodukte of as komponente van afval- of uitvloeiselstrome in 'n chemiese produksieproses.

(3) Produkte wat chemikalieë gelys in Aanhangsel B bevat, kan na lande uitgevoer word wat nie Statepartye by die Chemiesewapenskonsensie is nie: Met dien verstande dat die genoemde produkte—

- (a) een persent of minder van die toksiese chemikalieë gelys in Aanhangsel B bevat; of
- (b) 10 persent of minder van die voorlopers gelys in Aanhangsel B bevat; en

geïdentifiseer word as verbruikersgoedere wat verpak is vir kleinhandelsverkoop vir persoonlike gebruik of verpak is vir individuele gebruik.



(4) Produkte wat chemikalieë gelys in Aanhangsel C bevat, kan sonder 'n permit uitgevoer word na lande wat nie Stateparty by die Chemiesewapenskonsensie is nie: Met dien verstande dat die genoemde produkte minder as 30 persent van 'n chemikalie gelys in Aanhangsel C bevat en geïdentifiseer word as verbruikersgoedere wat verpak is vir kleinhandelsverkoop vir persoonlike gebruik of verpak is vir individuele gebruik.

### Aansoekvorms

6. Aansoekvorms vir permitte bedoel in paragraaf 2 van hierdie kennisgewing is verkrygbaar by enige van die volgende adresse:

(a) Posadres:

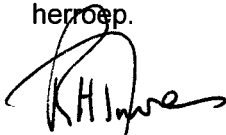
Die Sekretariaat  
Suid-Afrikaanse Raad vir die Nie-proliferasie van Wapens van  
Grootsekaalse Vernietiging  
Privaat Sak X84  
PRETORIA  
0001; of

(b) fisiese adres:

Die Sekretariaat  
Suid-Afrikaanse Raad vir die Nie-proliferasie van Wapens van  
Grootsekaalse Vernietiging  
Meintjiesstraat 77  
Sunnyside  
PRETORIA.

### Herroeping

7. Goewermentskennisgewing No. 152 van 29 Januarie 2003 word hierby herroep.



**DR ROB DAVIES, MP**

**MINISTER VAN HANDEL EN NYWERHEID**

## AANHALING

## ANNEXURE A

**Schedule 1 of the Chemical Weapons Convention**(Chemical Abstracts Service  
Registry Number)**A. Toxic chemicals:**

- (1) O-Alkyl (equal to or less than C<sub>10</sub>, including cycloalkyl) alkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphonofluoridates, such as

Sarin: O-Isopropyl methylphosphonofluoridate (107-44-8)

Soman: O-Pinacolyl methylphosphonofluoridate (96-64-0)

- (2) O-Alkyl (equal to or less than C<sub>10</sub>, including cycloalkyl) N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidocyanidates, such as

Tabun: O-Ethyl N,N-dimethylphosphoramidocyanidate (77-81-6)

- (3) O-Alkyl (H or equal to or less than C<sub>10</sub>, including cycloalkyl) S-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-aminoethyl alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonothiolates and corresponding alkylated or protonated salts, such as

VX: O-Ethyl S-2-diisopropylaminoethyl methyl phosphonothiolate (50782-69-9)

- (4) Sulphur mustards:
- |   |               |
|---|---------------|
| 2-Chloroethylchloromethylsulphide               | (2625-76-5)   |
| Mustard gas: Bis(2-chloroethyl)sulphide         | (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)
- B. Precursors:**
- (9) Alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonyl-difluorides, such as
- |                                |            |
|--------------------------------|------------|
| DF: Methylphosphonyldifluoride | (676-99-3) |
| Ethylphosphonyl difluoride     | (753-98-0) |
- (10) O-Alkyl (H or equal to or less than C<sub>10</sub>, including

cycloalkyl) O-2-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-aminoethyl alkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphonites and corresponding alkylated or protonated salts, such as

- QL: O-Ethyl O-2-diisopropylaminoethyl  
Methylphosphonite (57856-11-8)
- (11) Chlorosarin:  
O-Isopropyl methylphosphono-chloridate (1445-76-7)
- (12) Chlorosoman:  
O-Pinacolyl methylphosphono-chloridate (7040-57-5)

**ANNEXURE B****Schedule 2 of the Chemical Weapons Convention**

(Chemical Abstracts Service  
Registry Number)

**A. Toxic chemicals:**

- (1) Amiton:  
O,O-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, such as
- Methylphosphonyl dichloride (676-97-1)  
Dimethyl methylphosphonate (756-79-6)  
Diethyl ethylphosphonate (78-38-6)  
Ethylphosphinyl dichloride (1498-40-4)  
Ethylphosphonyl dichloride (1066-50-8)  
Methylphosphinyl dichloride (676-83-5)  
Ethylphosphinyl difluoride (430-78-4)  
Methylphosphinyl difluoride (753-59-3)  
Methylphosphonic acid (993-13-5)  
Methylphosphonothioic dichloride (676-98-2)

	Diethyl methylphosphonite	(15715-41-0)
	Dimethyl ethylphosphonate	(6163-75-3)
	<b>Exemption:</b>	
	Fonofos:	
	O-Ethyl S-phenyl ethylphosphonothiolothionate	(944-22-9)
(5)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) phosphoramidic dihalides	
(6)	Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl N,N-dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl)-phosphoramidates, such as	
	Diethyl N,N-dimethylphosphoramidate	(2404-03-7)
(7)	Arsenic trichloride	(7784-34-1)
(8)	2,2-Diphenyl-2-hydroxyacetic acid (Benzilic acid)	(76-93-7)
(9)	Quinuclidin-3-ol	(1619-34-7)
(10)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethyl-2-chlorides and corresponding protonated salts, such as	
	N,N-Diisopropyl-(beta)-aminoethyl chloride	(96-79-7)
	N,N-Diisopropyl-2-aminoethyl chloride hydrochloride	(4261-68-1)
	N,N-Dimethylaminophosphoryl dichloride	(676-98-2)
(11)	N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethane-2-ols and corresponding protonated salts, such as	
	N,N-Diisopropyl-(beta)-aminoethanol	(96-80-0)

**Exemptions:**

- |      |   |             |
|------|---|-------------|
|      | N,N-Dimethylaminoethanol  | (108-01-0)  |
|      | and corresponding protonated salts  |             |
|      | Protonated salts of N,N-Diethylaminoethanol   | (100-37-8)  |
| (12) | N,N-Dialkyl (Methyl, Ethyl, n-Propyl or Isopropyl) aminoethane-2-thiols and corresponding protonated salts, such as |             |
|      | N,N-Diisopropyl-(beta)-aminoethane thiol  | (5842-07-9) |
| (13) | Thiodiglycol:   |             |
|      | Bis(2-hydroxyethyl)sulphide   | (111-48-8)  |
| (14) | Pinacolyl alcohol:  |             |
|      | 3,3-Dimethylbutan-2-ol  | (464-07-3)  |

**ANNEXURE C****Schedule 3 of the Chemical Weapons Convention**

(Chemical Abstracts Service  
Registry Number)

**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 phosphate       | (122-52-1)   |
| (10) | Dimethyl phosphite       | (868-85-9)   |
| (11) | Diethyl phosphite        | (762-04-9)   |
| (12) | Sulphur monochloride     | (10025-67-9) |
| (13) | Sulphur 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)  |

**ANNEXURE D**

(Chemical Abstracts Service  
Registry Number)

**Toxic chemicals:**

- |      |                              |             |
|------|------------------------------|-------------|
| (1)  | 3-Hydroxy-1-methylpiperidine | (3554-74-3) |
| (2)  | Potassium fluoride           | (7789-23-3) |
| (3)  | 2-Chloroethanol              | (107-07-3)  |
| (4)  | Dimethylamine                | (124-40-3)  |
| (5)  | Dimethylamine hydrochloride  | (506-59-2)  |
| (6)  | Hydrogen fluoride            | (7664-39-3) |
| (7)  | Methyl benzilate             | (76-89-1)   |
| (8)  | 3-Quinuclidone               | (3731-38-2) |
| (9)  | Pinacolone                   | (75-97-8)   |
| (10) | Potassium cyanide            | (151-50-8)  |
| (11) | Potassium bifluoride         | (7789-29-9) |
| (12) | Ammonium bifluoride          | (1341-49-7) |
| (13) | Sodium bifluoride            | (1333-83-1) |
| (14) | Sodium fluoride              | (7681-49-4) |
| (15) | Sodium cyanide               | (143-33-9)  |

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(16)	Phosphorus pentasulphide	(1314-80-3)
(17)	Di-isopropylamine	(108-18-9)
(18)	Diethylaminoethanol	(100-37-8)
(19)	Sodium sulphide	(1313-82-2)
(20)	Triethanolamine hydrochloride	(637-39-8)
(21)	Triisopropyl phosphite	(116-17-6)
(22)	O,O-Diethyl phosphorothioate	(2465-65-8)
(23)	O,O-Diethyl phosphorodithioate	(298-06-6)
(24)	Sodium hexafluorosilicate	(16893-85-9)

**ANNEXURE E**

(Chemical Abstracts Service  
Registry Number)

**A. Riot Control Agents**

Riot control agents including the following:

- |     |   |             |
|-----|---|-------------|
| (1) | $\alpha$ -Bromobenzeneacetonitrile,<br>(Bromobenzyl cyanide), (CA)                                | (5798-79-8) |
| (2) | 2-Chloro-1-phenyl-ethanone, (Phenylacetyl chloride),<br>( $\omega$ -chloroacetophenone), (CN)     | (532-27-4)  |
| (3) | [(2-chlorophenyl)-methylene] propanedinitrile,<br>( <i>o</i> -Chlorobenzylidenemalonitrile), (CS) | (2698-41-1) |
| (4) | Dibenz(b,f)-1,4-oxazepine, (CR)   | (257-07-8)  |

**B. Harassing Agents**

Harassing agents including the following:

- |     |  |             |
|-----|--|-------------|
| (1) | Diphenylaminochloroarsine, (10-Chloro-5,10-dihydrophen-<br>arsazine), (Phenarsazine chloride), (Adamsite), (DM)                                | (578-94-9)  |
| (2) | N-nonanylmorpholine, (MPA)   | (5299-64-9) |
| (3) | trans-8-Methyl-N-vanillyl-6-nonenamide, (Capsaicin), (Pepper<br>Spray), [N-(4-hydroxy-3-methoxy benzyl)-8-methyl-non-trans-6-enamide],<br>(OC) | (404-86-4)  |
| (4) | Ethyl bromoacetate, (EBA)  | (105-36-2)  |

- (5) Pelargonic acid vanillylamide (2444-46-4)
- (6) Phenyl chloride (108-90-7)
- (7) Mixture of OC and CS

**ANNEXURE F**

(Chemical Abstracts Service  
Registry Number)

**Anti-plant agents:**

Anti-plant agents as follows:

- |     |   |             |
|-----|---|-------------|
| (1) | Butyl 2-chloro-4-fluorophenoxyacetate (LNF)     | (1692-85-9) |
| (2) | Mixtures of 2,4,5-T and 2,4-D where:            |             |
|     | 2,4,5-T: 2,4,5-Trichlorophenoxyacetic acid      | (93-76-5)   |
|     | 2,4-D: 2,4-Dichlorophenoxyacetic acid           | (94-75-7)   |
| (3) | Mixtures of Picloram where:                     |             |
|     | Picloram: 4-Amino-3,5,6-trichloropicolinic acid | (1918-02-1) |
| (4) | Dimethylarsinic acid (Cacodylic acid)           | (75-60-5)   |

SLUIT AANHALING

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