

## Table of Contents

|  |   |
|--|---|
| § 745.1 ADVANCE NOTIFICATION AND ANNUAL REPORT OF ALL EXPORTS OF SCHEDULE 1 CHEMICALS TO OTHER STATES PARTIES .....  | 1 |
| § 745.2 END-USE CERTIFICATE REPORTING REQUIREMENTS UNDER THE CHEMICAL WEAPONS CONVENTION .....   | 3 |
| SUPPLEMENT NO. 1 TO PART 745 - SCHEDULES OF CHEMICALS .....  | 1 |
| SUPPLEMENT NO. 2 TO PART 745 - STATES PARTIES TO THE CONVENTION ON THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING, AND USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION ..... | 1 |
| SUPPLEMENT NO 3 TO PART 745 - FOREIGN AUTHORIZED AGENCIES RESPONSIBLE FOR ISSUING END-USE CERTIFICATES PURSUANT TO §745.2 .....  | 1 |

### § 745.1 ADVANCE NOTIFICATION AND ANNUAL REPORT OF ALL EXPORTS OF SCHEDULE 1 CHEMICALS TO OTHER STATES PARTIES

Pursuant to the Convention, the United States is required to notify the Organization for the Prohibition of Chemical Weapons (OPCW) not less than 30 days in advance of every export of a Schedule 1 chemical, in any quantity, to another State Party. In addition, the United States is required to provide a report of all exports of Schedule 1 chemicals to other States Parties during each calendar year. If you plan to export

any quantity of a Schedule 1 chemical controlled under the EAR and licensed by the Department of Commerce or controlled under the International Traffic in Arms Regulations (ITAR) and licensed by the Department of State, you are required under this section to notify the Department of Commerce in advance of this export. You are also required to provide an annual report of exports that actually occurred during the previous calendar year. The United States will transmit the advance notifications and an aggregate annual report to the OPCW of exports of Schedule 1 chemicals from the United States. Note that the notification and annual report requirements of this section do not relieve the exporter of any requirement to obtain a license from the Department of Commerce for the export of Schedule 1 chemicals subject to the EAR or from the Department of State for the export of Schedule 1 chemicals subject to the ITAR.

#### *(a) Advance notification of exports*

You must notify BIS at least 45 calendar days prior to exporting any quantity of a Schedule 1 chemical listed in Supplement No. 1 to this part to another State Party. This is in addition to the requirement to obtain an export license under the EAR for chemicals controlled by ECCN 1C350 or 1C351 for any reason for control, or from the Department of State for Schedule 1 chemicals controlled under the ITAR. Note that such notifications may be sent to BIS prior to or after submission of a license application to BIS for Schedule 1 chemicals controlled subject to the EAR and under ECCNs 1C350 or 1C351 or to the Department of State for Schedule 1 chemicals controlled on the ITAR. Such notices must be submitted separately from license applications.

**(1)** Such notification should be on company letterhead or must clearly identify the reporting entity by name of company, complete address, name of contact person and telephone and fax numbers, along with the following information:

- (i) Common Chemical Name;
- (ii) Structural formula of the chemical;
- (iii) Chemical Abstract Service (CAS) Registry Number;
- (iv) Quantity involved in grams;
- (v) Planned date of export;
- (vi) Purpose (end-use) of export;
- (vii) Name of recipient;
- (viii) Complete street address of recipient;
- (ix) Export license or control number, if known; and
- (x) Company identification number, once assigned by BIS.

**(2)** Send the notification either by fax to (202) 482-1731 or by mail or courier delivery to the following address:

Information Technology Team  
Treaty Compliance Division  
Bureau of Industry and Security  
U.S. Department of Commerce  
Room 4515  
14th Street and Pennsylvania Avenue, N.W.  
Washington, DC 20230.

Attn: “Advance Notification of Schedule 1 Chemical Export”.

**(3)** Upon receipt of the notification, BIS will inform the exporter of the earliest date the shipment may occur under the notification procedure. To export the Schedule 1 chemical, the exporter must have applied for and been granted a license (see §§742.2 and 742.18 of the EAR, or the ITAR at 22 CFR Part 121).

**(b) Annual report of exports**

**(1)** You must report all exports of any quantity of a Schedule 1 chemical to another State Party during the previous calendar year, starting with exports taking place during calendar year 1997. Reports for exports during calendar years 1997 and 1998 are due to the Department of Commerce August 16, 1999. Thereafter, annual reports of exports are due on February 13 of the following calendar year. The report should be on company letterhead or must clearly identify the reporting entity by name of company, complete address, name of contact person and telephone and fax numbers along with the following information for *each* export:

- (i) Common Chemical Name;
- (ii) Structural formula of the chemical;
- (iii) CAS Registry Number;
- (iv) Quantity involved in grams;
- (v) Date of export;
- (vi) Export license number;
- (vii) Purpose (end-use) of export;
- (viii) Name of recipient;
- (ix) Complete address of recipient, including street address, city and country; and
- (x) Company identification number, once assigned by BIS.

**(2)** The report must be signed by a responsible party, certifying that the information provided in the annual report is, to the best of his/her knowledge and belief, true and complete.

**(3)** Send the report either by fax to (202) 482-1731 or by mail or courier delivery to the following address:

Information Technology Team  
Treaty Compliance Division  
Bureau of Industry and Security  
U.S. Department of Commerce  
Room 4515  
14th Street and Pennsylvania Avenue, N.W.  
Washington, DC 20230.

Attn: “Annual Report of Schedule 1 Chemical Export”.

**§ 745.2 END-USE CERTIFICATE  
REPORTING REQUIREMENTS  
UNDER THE CHEMICAL WEAPONS  
CONVENTION**

*NOTE: The End-Use Certificate requirement of this section does not relieve the exporter of any requirement to obtain a license from the Department of Commerce for the export of Schedule 3 chemicals subject to the Export Administration Regulations or from the Department of State for the export of Schedule 3 chemicals subject to the International Traffic in Arms Regulations.*

(a)(1) No U.S. person, as defined in §744.6(c) of the EAR, may export from the United States any Schedule 3 chemical identified in Supplement No. 1 to this part to countries not party to the Chemical Weapons Convention (destinations *not* listed in Supplement No. 2 to this part) unless the U.S. person obtains from the consignee an End-Use Certificate issued by the government of the importing destination. This Certificate must be issued by the foreign government’s agency responsible for foreign affairs or any other agency or department designated by the importing government for this purpose. Supplement No. 3 to this part includes foreign authorized agencies responsible for issuing End-Use Certificates pursuant to this

section. Additional foreign authorized agencies responsible for issuing End-Use Certificates will be included in Supplement No. 3 to this part when known. End-Use Certificates may be issued to cover aggregate quantities against which multiple shipments may be made to a single consignee. An End-Use Certificate covering multiple shipments may be used until the aggregate quantity is shipped. End-Use Certificates must be submitted separately from license applications.

(2) Submit a copy of the End-Use Certificate, no later than 7 days after the date of export, either by fax to (202) 482-1731 or by mail or courier delivery to the following address:

Information Technology Team  
Treaty Compliance Division  
Bureau of Industry and Security  
U.S. Department of Commerce  
Room 4515  
14th Street and Pennsylvania Avenue, N.W.  
Washington, DC 20230.

Attn: “CWC End-Use Certificate Report”.

(b) The End-Use Certificate described in paragraph (a) of this section must state the following:

- (1) That the chemicals will be used only for purposes not prohibited under the Chemical Weapons Convention;
- (2) That the chemicals will not be transferred to other end-user(s) or end-use(s);
- (3) The types and quantities of chemicals;
- (4) Their specific end-use(s); and
- (5) The name(s) and complete address(es) of the end-user(s).



## SUPPLEMENT NO. 1 TO PART 745 - SCHEDULES OF CHEMICALS

**C.A.S.  
Registry  
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-Isopropyl methylphosphonofluoridate ..... 107-44-8  
Soman: O-Pinacolyl methylphosphonofluoridate ..... 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-dimethyl  
phosphoramidocyanidate ..... 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-diisopropylaminoethyl  
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:

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<br>(Me, Et, n-Pr or i-Pr)-aminoethyl alkyl<br>(Me, Et, N-Pr or i-Pr) phosphonites<br>and corresponding alkylated or protonated salts |            |
| e.g. QL: O-Ethyl O-2- diisopropylaminoethyl<br>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: O,O-Diethyl S-[2-(diethylamino)ethyl]<br>phosphorothiolate..... | 78-53-5   |
| and corresponding alkylated or protonated salts                             |           |
| (2) PFIB: 1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-<br>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 ethylphosphonothiolothionate.....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 .....108-01-0 and corresponding protonated salts  
 N,N-Diethylaminoethanol.....100-37-8 and corresponding protonated salts
- (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) Methyl diethanolamine.....105-59-9
- (17) Triethanolamine .....102-71-6



**SUPPLEMENT NO. 2 TO PART 745 - STATES PARTIES TO THE CONVENTION ON  
THE PROHIBITION OF THE DEVELOPMENT, PRODUCTION, STOCKPILING, AND  
USE OF CHEMICAL WEAPONS AND ON THEIR DESTRUCTION**

List of States Parties as of May 21, 2009

|                                       |                    |                                     |                                     |
|---------------------------------------|--------------------|-------------------------------------|-------------------------------------|
| Afghanistan                           | Coast)             | Kazakhstan                          | Norway                              |
| Albania                               | Croatia            | Kenya                               | Oman                                |
| Algeria                               | Cuba               | Kiribati                            | Pakistan                            |
| Andorra                               | Cyprus             | Korea (Republic of)                 | Palau                               |
| Antigua and Barbuda                   | Czech Republic     | Kuwait                              | Panama                              |
| Argentina                             | Denmark            | Kyrgyzstan                          | Papua New Guinea                    |
| Armenia                               | Djibouti           | Laos (P.D.R.)                       | Paraguay                            |
| Australia                             | Dominica           | Latvia                              | Peru                                |
| Austria                               | Dominican Republic | Lebanon                             | Philippines                         |
| Azerbaijan                            | Ecuador            | Lesotho                             | Poland                              |
| Bahamas                               | El Salvador        | Liberia                             | Portugal                            |
| Bahrain                               | Equatorial Guinea  | Libya                               | Qatar                               |
| Bangladesh                            | Eritrea            | Liechtenstein                       | Romania                             |
| Barbados                              | Estonia            | Lithuania                           | Russian Federation                  |
| Belarus                               | Ethiopia           | Luxembourg                          | Rwanda                              |
| Belgium                               | Fiji               | Macedonia                           | Saint Kitts and Nevis               |
| Belize                                | Finland            | Madagascar                          | Saint Lucia                         |
| Benin                                 | France             | Malawi                              | Saint Vincent and<br>the Grenadines |
| Bhutan                                | Gabon              | Malaysia                            | Samoa                               |
| Bolivia                               | Gambia             | Maldives                            | San Marino                          |
| Bosnia-Herzegovina                    | Georgia            | Mali                                | Sao Tome and Principe               |
| Botswana                              | Germany            | Malta                               | Saudi Arabia                        |
| Brazil                                | Ghana              | Marshall Islands                    | Senegal                             |
| Brunei Darussalam                     | Greece             | Mauritius                           | Serbia                              |
| Bulgaria                              | Grenada            | Mauritania                          | Seychelles                          |
| Burkina Faso                          | Guatemala          | Mexico                              | Sierra Leone                        |
| Burundi                               | Guinea             | Micronesia                          | Singapore                           |
| Cambodia                              | Guinea-Bissau      | Moldova (Republic of)               | Slovak Republic                     |
| Cameroon                              | Guyana             | Monaco                              | Slovenia                            |
| Canada                                | Haiti              | Mongolia                            | Solomon Islands                     |
| Cape Verde                            | Holy See           | Montenegro                          | South Africa                        |
| Central African Republic              | Honduras           | Morocco                             | Spain                               |
| Chad                                  | Hungary            | Mozambique                          | Sri Lanka                           |
| Chile                                 | Iceland            | Namibia                             | Sudan                               |
| China*                                | India              | Nauru                               | Suriname                            |
| Colombia                              | Indonesia          | Nepal                               | Swaziland                           |
| Comoros                               | Iran               | Netherlands (Kingdom of<br>the) *** | Sweden                              |
| Congo (Democratic<br>Republic of the) | Iraq               | New Zealand                         | Switzerland                         |
| Congo (Republic of the)               | Ireland            | Nicaragua                           | Tajikistan                          |
| Cook Islands                          | Italy              | Niger                               | Tanzania                            |
| Costa Rica                            | Jamaica            | Nigeria                             | Thailand                            |
| Cote d'Ivoire (Ivory<br>Coast)        | Japan              | Niue                                | Timor-Leste                         |
|                                       | Jordan             |                                     |                                     |

**State Parties to the Chemical Weapons Convention**

**Supplement No. 2 to Part 745 - page 2**

|                     |                      |          |
|---------------------|----------------------|----------|
| Togo                | Ukraine              | Vietnam  |
| Tonga               | United Arab Emirates | Yemen    |
| Trinidad and Tobago | United Kingdom       | Zambia   |
| Tunisia             | United States        | Zimbabwe |
| Turkey              | Uruguay              |          |
| Turkmenistan        | Uzbekistan           |          |
| Tuvalu              | Vanuatu              |          |
| Uganda              | Venezuela            |          |

\* For CWC purposes only, China includes Hong Kong and Macau.

\*\*\* For CWC purposes only, the Netherlands (Kingdom of) includes: Aruba, Curaçao, and Sint Maarten (the Dutch two-fifths of the island of Saint Martin).

**SUPPLEMENT NO 3 TO PART 745 - FOREIGN AUTHORIZED AGENCIES  
RESPONSIBLE FOR ISSUING END-USE CERTIFICATES PURSUANT TO §745.2**

Israel            Chemical, Environment Technology Administration  
                     Ministry of Industry & Trade  
                     30 Agron Street  
                     Jerusalem 94190, Israel

Contact: Josef Dancona  
Deputy Director  
Tel: 972-2-6220193  
Fax: 972-2-6241987

Taiwan<sup>1</sup>        Board of Foreign Trade,  
                     Ministry of Economic Affairs  
                     1 Hukou St., Taipei  
                     Tel: 02-2351-0271  
                     Fax: 02-2351-3603

Export Processing Zone Administration,  
Ministry of Economic Affairs  
600 Chiachang Rd., Nantze, Kaohsiung  
Tel: 07-361-1212  
Fax: 07-361-4348

Science-Based Industrial Park Administration  
National Science Council  
Executive Yuan  
2 Hsin-an Rd., Hsinchu  
Tel: 03-577-3311  
Fax: 03-577-6222

---

<sup>1</sup> Two of the three offices (Export Processing Zone Administration and the Science-Based Industrial Park Administration) are in special economic zones and are responsible for the activity in their respective zones.