



Ottawa, January 14, 2011

# MEMORANDUM D19-7-2

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## In Brief

### REQUIREMENTS CONCERNING THE IMPORTATION AND EXPORTATION OF OZONE-DEPLETING SUBSTANCES AND PRODUCTS

1. Memorandum D19-7-2 has been updated and replaces the previous Memorandum D19-7-2, dated February 10, 2010.
2. Main revisions to this memorandum include additional information on controlling HCFCs, specifically HCFC-22, HCFC-141b and HCFC-142b, and reflect organizational changes within Environment Canada and Canada Border Services Agency (CBSA). Appendices C and D have also been updated to reflect the actual list of countries that are a Party to the Montreal Protocol and the list of developing countries for the export of controlled products that contain or are designed to contain an ozone-depleting substance. Memorandum D19-7-2 reflects amendments to the *Ozone-depleting Substances Regulations, 1998*, and outlines procedures for the importation and exportation of ozone-depleting substances.
3. The *Ozone-depleting Substances Regulations, 1998* reflect Canada's commitment to meet its requirements under the Montreal Protocol on Substances That Deplete the Ozone Layer (Montreal Protocol). The Montreal Protocol is an international agreement signed by 196 countries to control the production and consumption of certain ozone-depleting substances. The Regulations are intended to further reduce emissions of ozone-depleting substances by controlling the import and export of ozone-depleting substances, products containing ozone-depleting substances and products designed to contain ozone-depleting substances.





Ottawa, January 14, 2011

# MEMORANDUM D19-7-2

## REQUIREMENTS CONCERNING THE IMPORTATION AND EXPORTATION OF OZONE-DEPLETING SUBSTANCES AND PRODUCTS

This memorandum provides guidelines concerning the importation and exportation of ozone-depleting substances (ODS), products containing ODS and products designed to contain ODS. It relates directly to the supportive role the Canada Border Services Agency (CBSA) plays in assisting Environment Canada in administering the *Canadian Environment Protection Act, 1999* and the *Ozone-depleting Substances Regulations, 1998* (SOR/99-7, as amended, SOR/2000-102, SOR/2001-2, SOR/2002-100, SOR/2004-315 and SOR/2007-129).

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## LEGISLATION

### *Canada Border Services Agency Act*

Paragraph 5(1) and 5(2) of the *Canada Border Services Agency Act* state:

5. (1) The Agency is responsible for providing integrated border services that support national security and public safety priorities and facilitate the free flow of persons and goods, including animals and plants, that meet all requirements under the program legislation, by:

- (a) supporting the administration or enforcement, or both, as the case may be, of the program legislation;
- (b) implementing agreements between the Government of Canada or the Agency and a foreign state or a public body performing a function of government in a foreign state to carry out an activity, provide a service or administer a tax or program;
- (c) implementing agreements between the Government of Canada or the Agency and the government of a province or other public body performing a function of the Government in Canada to carry out an activity, provide a service or administer a tax or program;
- (d) implementing agreements or arrangements between the Agency and departments or agencies of the Government of Canada to carry out an activity, provide a service or administer a program; and
- (e) providing cooperation and support, including advice and information, to other departments and agencies of the Government of Canada to assist them in developing, evaluating and implementing policies and decisions in relation to program legislation for which they have responsibility.

### **Support**

(2) The Agency may provide support, through the provision of services, to departments and agencies for which the Minister is responsible, in accordance with agreements or arrangements entered into with those departments and agencies.

### *Customs Act*

Sections 12, 95, 99, 101, and 107 of the *Customs Act* state:

## Report

12. (1) Subject to this section, all goods that are imported shall, except in such circumstances and subject to such conditions as may be prescribed, be reported at the nearest customs office designated for that purpose that is open for business.

## Exportation

95. (1) Subject to paragraph (2)(a), all goods that are exported shall be reported at such time and place and in such manner as may be prescribed.

(2) The Governor in Council may prescribe

(a) the classes of goods that are exempted from the requirements of subsection (1) and the circumstances in which any of those classes of goods are not so exempted; and

(b) the classes of persons who are required to report goods under subsection (1) and the circumstances in which they are so required.

(3) Every person reporting goods under subsection (1) shall

(a) answer truthfully any question asked by an officer with respect to the goods; and

(b) where an officer so requests, present the goods to the officer, remove any covering from the goods, unload any conveyance or open any part thereof, or open or unpack any package or container that the officer wishes to examine.

(4) If goods are required to be reported in writing, they shall be reported in the prescribed form containing the prescribed information or in such form containing such information as is satisfactory to the Minister.

## Examination of Goods

99. (1) An officer may

(a) at any time up to the time of release, examine any goods that have been imported and open or cause to be opened any package or container of imported goods and take samples of imported goods in reasonable amounts;

(c) at any time up to the time of exportation, examine any goods that have been reported under section 95 and open or cause to be opened any package or container of such goods and take samples of such goods in reasonable amounts;

(e) where the officer suspects on reasonable grounds that this Act or the regulations or any other Act of Parliament administered or enforced by him or any regulations thereunder have been or might be contravened in respect of any goods, examine the goods and open or cause to be opened any package or container thereof;

## Detention of Controlled Goods

101. Goods that have been imported or are about to be exported may be detained by an officer until he is satisfied that the goods have been dealt with in accordance with this Act, and any other Act of Parliament that prohibits, controls or regulates the importation or exportation of goods, and any regulations made thereunder.

## Provision of Information to Certain Persons

107. (5) An official may provide, allow to be provided or provide access to customs information to the following persons:

(a) a peace officer having jurisdiction to investigate an alleged offence under any Act of Parliament or of the legislature of a province subject to prosecution by indictment, the Attorney General of Canada and the Attorney General of the province in which proceedings in respect of the alleged offence may be taken, if that official believes on reasonable grounds that the information relates to the alleged offence and will be used in the investigation or prosecution of the alleged offence, solely for those purposes;

(b) a person that is otherwise legally entitled to the information by reason of an Act of Parliament, solely for the purposes for which that person is entitled to the information;

(c) an official solely for the purposes of developing, administering or enforcing an Act of Parliament or developing or implementing a policy related to an Act of Parliament if the information relates to

(i) goods, the importation, exportation or in-transit movement of which is or may be prohibited, controlled or regulated under that Act,

(ii) a person who that official has reasonable grounds to believe may have committed an offence under that Act in respect of goods imported or exported by that person, or

(iii) goods that may be evidence of an offence under that Act

## *Reporting of Exported Goods Regulations*

Paragraph 5(1) of the *Reporting of Exported Goods Regulations* states:

### **Restricted Goods**

5. (1) If goods that are exported are restricted goods, the exporter of the goods shall, in addition to making the report referred to in section 3 or 4, as applicable, provide evidence that the exportation of the goods complies with the Act of Parliament under which the exportation of the goods is restricted.

***Ozone-depleting Substances Regulations, 1998***

Subsection 17(3) of the *Ozone-depleting Substances Regulations, 1998* (ODSR 1998) states that:

Every person who imports or exports a controlled substance during any year shall provide to the customs office where the substance is required to be reported under section 12 or 95 of the *Customs Act* a copy of their permit, the Minister's written confirmation of their consumption allowance or an acknowledgement of their notice of shipment in transit.

**GUIDELINES AND  
GENERAL INFORMATION**

**DEFINITIONS**

1. The following are not definitions from the Regulations but are to be used as a guide in the application of this memorandum:

"Allowance" is a written authorization, issued by Environment Canada, to import or manufacture a specific quantity of hydrochlorofluorocarbons (HCFCs).

"Controlled" refers to controlled ODS and a product that contains or is designed to contain ODS that require a written authorization from Environment Canada prior to their importation or exportation.

"Controlled substance" is an ozone-depleting substance, whether existing alone or in a mixture, such as:

- (a) Chlorofluorocarbons (CFCs),
- (b) Hydrochlorofluorocarbons (HCFCs),
- (c) Hydrobromofluorocarbons (HBFCs),
- (d) Methyl chloroform (MCF),
- (e) Carbon tetrachloride (CTC),
- (f) Bromofluorocarbons and bromochlorofluorocarbons (Halons),
- (g) Methyl bromide, or
- (h) Bromochloromethane (BCM).

Appendix A contains a complete listing of controlled substances. Appendix B provides their common/trade names.

"Critical use" means a use of methyl bromide that conforms to the criteria established by the Parties. For details, refer to Decision IX/6 in the document entitled Report of the Ninth Meeting of the Parties to the Montreal Protocol on Substances That Deplete the Ozone Layer, UNEP/OzL.Pro. 9/12.

"Essential purpose" means a use that is necessary for health and safety or is critical to the good functioning of society and for which there are no technically or economically feasible alternatives or substitutes that are acceptable from the stand point of the environment and of health.

"Exempted" refers to an ODS or a product containing ODS that can be imported or exported without written authorization from Environment Canada.

"Feedstock" means a substance that is used in and transformed during the manufacture of another chemical substance (e.g. carbon tetrachloride in the manufacture of CFCs).

"Heel" in respect of a controlled substance, means the residual quantity left in a container after it has been emptied and that does not exceed 10% of the total capacity in weight of the container for that controlled substance.

"*Ozone-depleting Substances Regulations, 1998*" (ODSR 1998) means regulations established under the *Canadian Environmental Protection Act, 1999* respecting the manufacture, transit, use, sale, offer for sale, import, or export of controlled substances and products containing or designed to contain controlled substances.

"Party" means a State that has ratified the Montreal Protocol on Substances that Deplete the Ozone Layer.

"Permit" is a written authorization, issued by Environment Canada, that is required prior to importation or exportation of ODS and prior to the exportation of prescribed products to a developing country as listed in Appendix D to this memorandum.

"Plastic foam" includes rigid foams (e.g. foam insulation) and flexible foams (e.g. carpet under padding). Please refer to Appendix E for further explanations.

"Product containing or designed to contain ODS":

**Note:** the following is not a definition from the Regulations but is an interpretation from Environment Canada's programs for internal uses only and is based upon the definition used in the Montreal Protocol.

(a) If a controlled substance is present in a mixture as a carrier or to increase the effectiveness of the mixture (e.g. stabilizer, flash point suppressant, boiling point elevator, solvent for the other ingredient, propellant) and is not an active ingredient for the application, the mixture is considered to be a product containing ODS; or

(b) If the container is used to transport or store the controlled substance and is also an integral part of the use, the container and its contents are considered a product containing or designed to contain ODS; or

(c) If the mixture is a polyalcohol (polyol), this mixture is considered as a prepolymer and, as a result, a product containing ODS. Appendix E provides an explanation.

Appendix E provides examples of products containing or designed to contain ODS.

“Prohibited” means not allowed, and banned.

“Reclaimed” controlled substance means it has been restored to industry-accepted re-use standards by recovering, re-processing, and/or upgrading it using processes such as filtering, drying, distillation, and chemical treatment.

“Recovered” controlled substance means that, after being used, it has been collected from machinery, equipment, or a container during servicing, or collected before disposal of the machinery, equipment or container.

“Recycled” controlled substance means it has been recovered, cleaned by a process such as filtering or drying, and re-used, including re-use to recharge equipment.

“Rigid foam” means a product (e.g. foam insulation) that consists of, or contains, any of the types of foam as described in Appendix E.

“Transfer” is a written authorization issued by Environment Canada approving the transfer of all or part of an allowance from the original recipient to another.

“Transit” is defined in the ODSR 1998 as: ‘transit through Canada from a place outside Canada to another place outside Canada, or where the controlled substance is in transit through another country from a place in Canada to another place in Canada, where

(a) the address of the destination is known at the time of import into or export from Canada, as applicable; and

(b) while in transit, the controlled substance is not stored other than in the normal course of transport, re-packaged, sorted or otherwise changed in condition or sold.

#### **CONTROLLED OZONE-DEPLETING SUBSTANCES (ODS) AND PRODUCTS THAT CONTAIN OR ARE DESIGNED TO CONTAIN ODS**

2. Generally, the importation and exportation of ODS is prohibited except in controlled and exempted cases.

#### **Importation**

##### **Controlled:**

3. Importation is permitted only on the condition that a valid permit or a valid allowance (please refer to Appendix G to see a sample of a permit or allowance) from Environment Canada is presented to the CBSA where the

goods are being released. Please refer to the Appendix A for the list of controlled ODS and to Appendix B for the list of common/trade names of ODS. The following importations are controlled (written authorization required):

(a) ODS that are to be used for a purpose set out in Schedule 3 [refer to ODSR 1998, schedule 3 for the list of the approved purposes].

(i) In the case of a CFC or a product containing CFCs, it must be supplied in a container of 3L or less and be used for an essential use that is a laboratory or analytical use [ODSR 1998, subsection 20(5)].

(b) Recovered, recycled, reclaimed, used (RRRU) ODS or for destruction [ODSR 1998, Subsection 5(1)].

(c) HCFCs can be imported with an allowance or a transfer of allowance. HCFC-22, HCFC-141b and HCFC-142b can only be imported under an allowance if they are intended to be exported or to be used as a refrigerant.

**Exempted** (written authorization is not required):

4. Importation of following ODS and products containing ODS is exempted:

(a) Non-commercial importation of CFC, bromofluorocarbon, bromochlorodifluoromethane, tetrachloromethane or 1,1,1-trichloroethane or products containing these ODS for the personal use and consumption of the importer and transported in a consignment of personal or household effects;

(b) Aircraft, ships or any vehicle manufactured before January 1, 1999 and that contain or are designed to contain any CFC, bromofluorocarbon, bromochlorodifluoromethane, tetrachloromethane or 1,1,1-trichloroethane;

(c) Fire extinguisher containing or designed to contain any bromofluorocarbon or bromochlorodifluoromethane to be used in aircraft or military ships or military vehicles, if the equipment is imported from a Party;

(d) Products containing or designed to contain HCFCs other than HCFC-22, HCFC-141b and HCFC-142b: e.g., air-conditioning system, refrigerator, chiller, vending machine are exempted. [because they are not included in the ODSR 1998, Section 22 prohibition and products that contain or are designed to contain HCFC-22, HCFC-141b and HCFC-142b are controlled under Section 28.]

(e) A product containing HCFCs in a pressurized container that is:

(i) a mold release agent used in the production of plastic and elastomeric materials;

- (ii) a spinnerette lubricant or cleaning spray used in the production of synthetic fibers;
  - (iii) a document preservation spray;
  - (iv) fire extinguishing equipment used for non-residential applications;
  - (v) a wasp and hornet spray;
  - (vi) a rigid foam product;
  - (vii) Refrigerant R-412A; or
  - (viii) Refrigerant R-509A.
- (f) A product containing HCFC that is used as an animal or human health care product, including any bronchial dilator, inhalable steroid, topical anesthetic and veterinary powder wound spray;
- (g) A rigid foam product in which any HCFC has been used as a foaming agent.

### Exportation

5. Under the ODSR 1998, there are a lot less restrictions on the exportation of ozone-depleting substances as compared to the importation. The country receiving a shipment of ozone-depleting substances can prescribe its own restrictions through its domestic legislation, as Canada does under the ODSR 1998.
6. As a consequence, products that contain or are designed to contain ODS are not controlled in Canada except those subject to Section 21 of the ODSR 1998.
7. Please find below the controlled exportations and the exempted exportations under the ODSR 1998.

### Controlled:

8. Exportation is permitted only on the condition that a valid permit from Environment Canada is presented to the CBSA. The exportation of following ODS and products containing ODS is controlled:
- (a) Recovered, recycled, reclaimed, used (RRRU) ODS or for destruction [ODSR 1998, Subsection 6(1)];
  - (b) ODS exported for a purpose set out in Schedule 3 that was previously imported or manufactured for a purpose set out in Schedule 3 [ODSR 1998, paragraph 7(2)(d)];
  - (c) ODS exported because it was imported by mistake or without consenting to its importation [ODSR 1998, paragraph 7(2)(e)];
  - (d) Product that contains or is designed to contain any CFCs, bromofluorocarbons, bromochlorodifluoromethane, tetrachloromethane or 1,1,1-trichloroethane exported to Article 5 countries (developing countries) of the Protocol; ODSR 1998, Section 21. Please refer to Appendix D for the List of Parties categorized as operating under Article 5

paragraph 1 (developing countries) of the Montreal Protocol.

### Exempted:

9. Written authorization is not required; the exportation of following ODS and products containing ODS is exempted:
- (a) ODS that are a heel [ODSR 1998, Subsection 6(2)];
  - (b) ODS that are sold in Canada to a foreign ship for the refilling or servicing of its refrigeration, air-conditioning or fire extinguishing equipment, in a quantity that does not exceed the total capacity of the equipment [ODSR 1998, subsection 6(3)];
  - (c) Any products that contain or are designed to contain any ODS other than those specified in Section 21.

### MAINTENANCE OF RECORDS

10. Every importer and exporter of controlled substances is required to keep records and to report to the Minister of the Environment as specified in the *Ozone-depleting Substances Regulations, 1998*. The Canada Border Services Agency does not maintain these records. Memorandum D17-1-21 outlines the maintenance of records and books in Canada by importers.

### RESPONSIBILITIES OF CANADA BORDER SERVICES AGENCY

11. For all shipments of controlled ODS and products containing ODS that are imported, exported or that transit through Canada, the importer, customs broker or carrier must present the CBSA office with one of the required documents such as: a copy of the permit or Minister's written confirmation of their consumption allowance or an acknowledgement of their notice of shipment in transit.
12. Shipments containing regulated ODS imported, exported or in transit through Canada will not be allowed to proceed until the required document is presented to the CBSA office. For all in-transit movements of the ODS, documentation will be verified by border services officers when the shipments of ODS enter Canada.
13. If prescribed documentation has not been presented to the CBSA with the release request, a penalty may be issued by the CBSA for not providing required permit or information before the goods are released. More information concerning Administrative Monetary Penalty System (AMPS) can be found on the CBSA Web site at [www.cbsa.gc.ca](http://www.cbsa.gc.ca) under the Facilitating Trade section, or by consulting the Memorandum D22-1-1, *Administrative Monetary Penalty System*.
14. You may access the directory of CBSA offices across Canada at the CBSA Web site at [www.cbsa.gc.ca](http://www.cbsa.gc.ca). Further information concerning the release of commercial goods

can be found in the Memorandum D17-1-4, *Release of Commercial Goods* posted on the CBSA Web site under Publications and Forms. Please refer to the *Reporting of Exported Goods Regulations* for specific time frames for reporting at the CBSA export reporting offices.

15. The Canada Border Services Agency will request the prescribed document (a copy of the permit or written confirmation of the consumption allowance or an acknowledgement of the notice of shipment in transit) prior to releasing the goods and will also ensure that:

- (a) the document is addressed to a company;
- (b) the document is signed by the Director, Chemical Production Division, on behalf of the Minister of the Environment;
- (c) an effective date is shown on the document;
- (d) the document is granted for the specific ozone-depleting substances being imported; and
- (e) the shipment arrives within the effective date indicated in the document.

16. Appendix G displays samples required documents.

17. If a border services officer suspects that a shipment is in violation of the *Ozone-depleting Substances Regulations, 1998*, the shipment will be detained and the nearest Environment Canada regional office (outlined in Appendix F) should be contacted immediately. An Environment Canada enforcement officer will verbally advise a border services officer of the appropriate action to take and will follow-up as soon as reasonably possible with written confirmation.

### **Sharing of information**

18. Where an Environment Canada enforcement officer, at the time of the inspection deems it necessary to obtain copies of other related documents relevant to the shipment in order to verify compliance with the *Ozone-depleting Substances Regulations, 1998*, the CBSA, upon review of each request, may authorize, under section 107 of the *Customs Act*, the disclosure of requested information to Environment Canada.

### **RESPONSIBILITIES OF ENVIRONMENT CANADA**

19. Environment Canada authorizes importers and exporters to import or export ODS and products containing ODS by issuing a permit to import or permit to export and/or by issuing an allowance (for HCFCs only).

20. Any questions with reference to permits or allowances should be referred to the nearest Environment Canada regional office or to the Chemical Production Division of Environment Canada indicated in Appendix F of this memorandum.

21. Should a CBSA officer suspect a violation of the *Ozone-depleting Substances Regulations, 1998*, the shipment is to be detained and the nearest Environment Canada regional or district office (outlined in Appendix F) contacted immediately. An Environment Canada enforcement officer will advise border services officers of the appropriate action to be taken, with any verbal instructions being followed immediately by a written confirmation.

22. Environment Canada will advise the CBSA office of the action to be taken on detained shipments within two hours of being notified of a specific detention. If an Environment Canada enforcement officer fails to advise the CBSA office of the appropriate action to be taken, the matter should be referred to the CBSA, Other Government Department Programs Unit of the Commercial Border Programs Division, in Ottawa at 613-946-0240.

23. Where an Environment Canada enforcement officer authorizes release of a detained shipment by telephone, border services officers will record the name, title and telephone number of this enforcement officer on the CBSA office copy of the release package/accounting document or cargo report and will request written confirmation by mail or fax from Environment Canada.

24. When detention of a suspect shipment beyond the two-hour time limit is deemed necessary by the Environment Canada enforcement officer, the enforcement officer will take the necessary action, so that the detained shipment will be removed from CBSA's premises as soon as possible within 24 hours, or such other period of time as agreed to by the CBSA and the enforcement officer.

25. The Environment Canada enforcement officer will be responsible for advising the CBSA office and the importer/owner or their customs broker as to the further disposition of the shipment.

26. Environment Canada will be responsible for the disposal of shipments detained by the Canada Border Services Agency on its behalf.

### **PENALTY INFORMATION**

#### ***Canadian Environmental Protection Act, 1999 (CEPA 1999)***

27. The *Canadian Environmental Protection Act, 1999* outlines penalties for non-compliance. Any person who contravenes or fails to comply with Regulations made under the Act is guilty of an offence and is liable as follows:

- (a) on summary conviction, to a fine not exceeding \$300,000 or to imprisonment for a term not exceeding six months, or to both; or
- (b) on indictment, to a fine not exceeding \$1 million or to imprisonment for a term not exceeding three years, or to both.

28. The courts issue the penalty as well as assess the amount of penalty in accordance with the penalties specified in the *Canadian Environmental Protection Act, 1999*.

#### **Administrative Monetary Penalty System (AMPS)**

29. The Administrative Monetary Penalty System (AMPS) authorizes the CBSA to impose monetary penalties for non-compliance with *Customs Act*, *Customs Tariff* and the regulations under these Acts, as well as contraventions of the terms and conditions of licensing agreements and undertakings. Please refer to the Memorandum D22-1-1 *Administrative Monetary Penalty System* for details.

#### **ADDITIONAL INFORMATION**

30. Addresses and telephone numbers for the regional offices of Environment Canada can be found in Appendix F.

31. Questions concerning administration of this program by the CBSA should be directed to:

Canada Border Services Agency  
 Commercial Border Programs Division  
 Killeany Building  
 150 Isabella Street, 5th floor  
 Ottawa, Ontario  
 K1A 0L8

Telephone: 613-946-0240  
 Fax: 613-946-1520

32. The CBSA Border Information Service (BIS) line responds to public inquiries related to import requirements of other government departments, including Environment Canada. For more information within Canada, call the Border Information Service at **1-800-461-9999**. From outside Canada call 204-983-3500 or 506-636-5064; long distance charges will apply. Agents are available Monday to Friday (08:00 – 16:00 local time, except holidays). TTY is also available within Canada: **1-866-335-3237**.

## APPENDIX A

## CONTROLLED OZONE-DEPLETING SUBSTANCES

Tetrachloromethane (carbon tetrachloride)	
1,1,1-trichloroethane (methyl chloroform), not including 1,1,2-trichloroethane	
Methyl Bromide	Methyl Bromide
Bromochloromethane	Halon 1011
<b>Bromofluorocarbons</b>	
(a) Bromotrifluoromethane	Halon-1301
(b) Bromochlorodifluoromethane	Halon-1211
(c) Dibromotetrafluoroethane	Halon-2402
(d) Tribromofluoromethane	Halon 1103
(e) Dibromodifluoromethane	Halon 1202
(f) Dibromofluoromethane	
(g) Bromodifluoromethane	Halon 221B1
(h) Bromofluoromethane	
(i) Dibromochlorofluoromethane	Halon 1112
(j) Bromodichlorofluoromethane	Halon 1121
(k) Pentabromofluoroethane	Halon 2105
(l) Tetrabromodifluoroethane	Halon 2204
(m) Tribromotrifluoroethane	Halon 2303
(n) Bromopentafluoroethane	Halon 2501
(o) Tetrabromofluoroethane	
(p) Tribromodifluoroethane	
(q) Dibromotrifluoroethane	
(r) Bromotetrafluoroethane	
(s) Tribromofluoroethane	
(t) Dibromodifluoroethane	
(u) Bromotrifluoroethane	
(v) Dibromofluoroethane	
(w) Bromodifluoroethane	
(x) Bromofluoroethane	
(y) Heptabromofluoropropane	Halon 3107
(z) Hexabromodifluoropropane	Halon 3206
(z.1) Pentabromotrifluoropropane	Halon 3305
(z.2) Tetrabromotetrafluoropropane	Halon 3404
(z.3) Tribromopentafluoropropane	Halon 3503
(z.4) Dibromohexafluoropropane	Halon 3602
(z.5) Bromoheptafluoropropane	Halon 3701
(z.6) Hexabromofluoropropane	
(z.7) Pentabromodifluoropropane	
(z.8) Tetrabromotrifluoropropane	
(z.9) Tribromotetrafluoropropane	
(z.10) Dibromopentafluoropropane	
(z.11) Bromohexafluoropropane	
(z.12) Pentabromofluoropropane	
(z.13) Tetrabromodifluoropropane	
(z.14) Tribromotrifluoropropane	
(z.15) Dibromotetrafluoropropane	
(z.16) Bromopentafluoropropane	
(z.17) Tetrabromofluoropropane	
(z.18) Tribromodifluoropropane	

- (z.19) Dibromotrifluoropropane
- (z.20) Bromotetrafluoropropane
- (z.21) Tribromofluoropropane
- (z.22) Dibromodifluoropropane
- (z.23) Bromotrifluoropropane
- (z.24) Dibromofluoropropane
- (z.25) Bromodifluoropropane
- (z.26) Bromofluoropropane

#### **Chlorofluorocarbons**

- |     |  |           |
|-----|--|-----------|
| (a) | Trichlorofluoromethane                       | CFC-11    |
| (b) | Dichlorodifluoromethane                      | CFC-12    |
| (c) | 1,1,2-Trichloro-1,2,2-trifluoroethane        | CFC-113   |
| (d) | 1,1,1-Trichloro-2,2,2-trifluoroethane        | CFC-113a  |
| (e) | Dichlorotetrafluoroethane                    | CFC-114   |
| (f) | Chloropentafluoroethane                      | CFC-115   |
| (g) | Chlorotrifluoromethane                       | CFC-13    |
| (h) | Pentachlorofluoroethane                      | CFC-111   |
| (i) | Tetrachlorodifluoroethane                    | CFC-112   |
| (j) | Heptachlorofluoropropane                     | CFC-211   |
| (k) | Hexachlorodifluoropropane                    | CFC-212   |
| (l) | 1,1,2,2,3,3-Hexachloro-1,3-difluoropropane   | CFC-212aa |
| (m) | Pentachlorotrifluoropropane                  | CFC-213   |
| (n) | 1,1,1,3,3-Pentachloro-2,2,3-trifluoropropane | CFC-213ca |
| (o) | Tetrachlorotetrafluoropropane                | CFC-214   |
| (p) | Trichloropentafluoropropane                  | CFC-215   |
| (q) | Dichlorohexafluoropropane                    | CFC-216   |
| (r) | 1,2-Dichloro-1,1,2,3,3,3-hexafluoropropane   | CFC-216ba |
| (s) | Chloroheptafluoropropane                     | CFC-217   |

#### **Hydrochlorofluorocarbons**

- |     |   |            |
|-----|---|------------|
| (a) | Dichlorofluoromethane                     | HCFC-21    |
| (b) | Chlorodifluoromethane                     | HCFC-22    |
| (c) | Chlorofluoromethane                       | HCFC-31    |
| (d) | Tetrachlorofluoroethane                   | HCFC-121   |
| (e) | Trichlorodifluoroethane                   | HCFC-122   |
| (f) | 2,2-dichloro-1,1,1-trifluoroethane        | HCFC-123   |
| (g) | 1,2-dichloro-1,1,2-trifluoroethane        | HCFC-123a  |
| (h) | 1,1-dichloro-1,2,2-trifluoroethane        | HCFC-123b  |
| (i) | 2-chloro-1,1,1,2-tetrafluoroethane        | HCFC-124   |
| (j) | 1-chloro-1,1,2,2-tetrafluoroethane        | HCFC-124a  |
| (k) | Trichlorofluoroethane                     | HCFC-131   |
| (l) | Dichlorodifluoroethane                    | HCFC-132   |
| (m) | Chlorotrifluoroethane                     | HCFC-133   |
| (n) | Dichlorofluoroethane                      | HCFC-141   |
| (o) | 1,1-Dichloro-1-fluoroethane               | HCFC-141b  |
| (p) | Chlorodifluoroethane                      | HCFC-142   |
| (q) | 1-Chloro-1,1-difluoroethane               | HCFC-142b  |
| (r) | Chlorofluoroethane                        | HCFC-151   |
| (s) | Hexachlorofluoropropane                   | HCFC-221   |
| (t) | Pentachlorodifluoropropane                | HCFC-222   |
| (u) | Tetrachlorotrifluoropropane               | HCFC-223   |
| (v) | Trichlorotetrafluoropropane               | HCFC-224   |
| (w) | Dichloropentafluoropropane                | HCFC-225   |
| (x) | 1,1-dichloro-2,2,3,3,3-pentafluoropropane | HCFC-225ca |
| (y) | 1,3-dichloro-1,2,2,3,3-pentafluoropropane | HCFC-225cb |

(z)	Chlorohexafluoropropane	HCFC-226
(z.1)	Pentachlorofluoropropane	HCFC-231
(z.2)	Tetrachloro-difluoropropane	HCFC-232
(z.3)	Trichlorotri-fluoropropane	HCFC-233
(z.4)	Dichlorotetra-fluoropropane	HCFC-234
(z.5)	Chloropentafluoropropane	HCFC-235
(z.6)	Tetrachlorofluoropropane	HCFC-241
(z.7)	Trichlorodifluoropropane	HCFC-242
(z.8)	Dichlorotrifluoropropane	HCFC-243
(z.9)	Chlorotetrafluoropropane	HCFC-244
(z.10)	Trichlorofluoropropane	HCFC-251
(z.11)	Dichlorodifluoropropane	HCFC-252
(z.12)	Chlorotrifluoropropane	HCFC-253
(z.13)	Dichlorofluoropropane	HCFC-261
(z.14)	Chlorodifluoropropane	HCFC-262
(z.15)	Chlorofluoropropane	HCFC-271

## APPENDIX B

## COMMON/TRADE NAMES OF OZONE-DEPLETING SUBSTANCES

Common/Trade Names	Controlled Substance	Common/Trade Names	Controlled Substance
1211	Halon 1211	Asahifron R-11	CFC-11
1,1,2-Trichlorotrifluoroethane	CFC-113	Asahifron R-113	CFC-113
1,1,1-TCE	MCF	Asahifron R-114	CFC-114
1,1,1-tri	MCF	Asahifron R-115	CFC-115
1,1,1-trichloroethane	MCF	Asahifron R-12	CFC-12
A D Delco Fabric	MCF	Asahifron R-13	CFC-13
Aerolex	MCF	Asahifron R-22	HCFC-22
Aerothene ( R) TA solvent	MCF	Asahifron R-500	CFC-12
Aerothene ( R) TT solvent	MCF	Asahifron R-502	CFC-115
Algofrene 11	CFC-11	Asahiklin AK-123	HCFC-123
Algofrene 113	CFC-113	Asahiklin AK-124	HCFC-124
Algofrene 114	CFC-114	Asahiklin AK-141b	HCFC-141b
Algofrene 115	CFC-115	Asahiklin AK-142b	HCFC-142b
Algofrene 12	CFC-12	Asahiklin AK-225	HCFC-225
Algofrene 22	HCFC-22	Asahiklin AK-225AE	HCFC-225
Algofrene 502	CFC-115	Asahiklin AK-225AES	HCFC-225
Alpha-T	MCF	Asahiklin AK-123DH	HCFC-225
Alpha-trichloroethane	MCF	Asahiklin AK-123DW	HCFC-225
Alpha 1220	MCF	Autofrost Chill It	HCFCs
Aquadry 50	MCF	Asahitriethane xxx	MCF
Arcton 11	CFC-11	B-70 Nettoyeur dégraisseur	MCF
Arcton 113	CFC-113	B-Lube	MCF
Arcton 114	CFC-114	Balcoxx	MCF
Arcton 115	CFC-115	Baltane	MCF
Arcton 12	CFC-12	Baltanexx	MCF
Arcton 13	CFC-13	BCF Fire Extinguisher Halon	Halon 1211
Arcton 22	HCFC-22	BCM	BCM
Arcton 402A	HCFC-22	Bromochlorodifluoromethane	Halon 1211
Arcton 402B	HCFC-22	Bromofluoroform	Halon 1301
Arcton 408A	HCFC-22	Bromomethane	MBr
Arcton 409a	HCFC-22	Bromotrifluoromethane	Halon 1301
Arcton 412A	HCFC-22	Carbon dichloride difluoride	CFC-12
Arcton 509	HCFC-22	Carbon monobromide trifluoride	Halon 1301
Arcton TP5R	HCFC-22	Carbon Tet	CT
Arcton TP5R2	HCFC-22	Carbon Tetrachloride	CT
Ardrox 8PR551 Penetrant Remover	MCF	Carbon Tetrachloride Fisher	CT
Ardrox D495A Developer	MCF	Carbon Tetrachloride Petro-Canada	CT
Ardrox K410C Remover	MCF	Carbon Tetrachloride Vulcan	CT
Arklone AM	CFC-113	CB-046 mold releasing agent	HCFC-141b
Arklone AMD	CFC-113	CFC(-)11	CFC-11
Arklone AS	CFC-113	CFC(-)113	CFC-113
Arklone EXT	CFC-113	CFC-11	CFC-11
Arklone K	CFC-113	CFC-113	CFC-113
Arklone L	CFC-113	CFC-114	CFC-114
Arklone P	CFC-113	CFC-115	CFC-115
Arklone PCIL	CFC-113	CFC-12	CFC-12
Arklone PSM	CFC-113	CFC114	CFC-114
Arklone W	CFC-113	CFC115	CFC-115
Arrow C190 LEC	MCF	CG Triethane F	MCF

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
CG Triethane N	MCF	Daiflon S3-E	CFC-113
CG Triethane NN	MCF	Daiflon S3-EN	CFC-113
CG Triethane NNA	MCF	Daiflon S3-ES	CFC-113
CG Triflon	CFC-113	Daiflon S3-HN	CFC-113
CG Triflon A	CFC-113	Daiflon S3-MC	CFC-113
CG Triflon C1	CFC-113	Daiflon S3-P35	CFC-113
CG Triflon CP	CFC-113	Daiflon S3-W6	CFC-113
CG Triflon D3	CFC-113	Delifrene 113	CFC-113
CG Triflon DI	CFC-113	Dibromo-tetrafluoroethane,	Halon 2402
CG Triflon E	CFC-113	Dichlorodifluoromethane CCl2F2	CFC-12
CG Triflon EC	CFC-113	Dichlorotetrafluoroethane	CFC-114
CG Triflon EE	CFC-113	Difluorochlorobromomethane	Halon 1211
CG Triflon ES	CFC-113	Difluorodichloromethane	CFC-12
CG Triflon FD	CFC-113	Di 24	HCFC-124
CG Triflon M	CFC-113	Di 36	HCFC-22
CG Triflon MES	CFC-113	Di 44	HCFC-22
CG Triflon P	CFC-113	Dional 11	CFC-11
CG Triflon WI	CFC-113	Dional 113	CFC-113
Chem-Slich	MCF	Dowclene (R) EC	MCF
Chemlok 252	MCF	Dowclene (R) EC-S	MCF
Chlorethene (R)	MCF	Dowclene (R) LS	MCF
Chlorethene (R) NU	MCF	Dry Cleaning Fluid	MCF
Chlorethene (R) SL	MCF	Dry Cleaning Solvent	MCF
Chlorethene (R) SM	MCF	Dymel 142b	HCFC-142b
Chlorethene (R) VG	MCF	Dymel 22	HCFC-22
Chlorethene (R) XL	MCF	Elecsolv	MCF
Chlorobromodifluoromethane	Halon 1211	Ethana AL	MCF
Chlorobromomethane	BCM	Ethana FXN	MCF
Chlorodifluorobromomethane	Halon 1211	Ethana HT	MCF
Chlorofluorocarbon 12	CFC-12	Ethana IRN	MCF
Chlorofluorocarbon C-113	CFC-113	Ethana NU	MCF
Chloropentafluoroethane	CFC-115	Ethana RD	MCF
Chlorothane	MCF	Ethana RS	MCF
Chlorotrifluoromethane	CFC-13	Ethana SL	MCF
Chlorure de carbone	CT	Ethana TS	MCF
Circuit Freeze	CFC-12	Ethana VG	MCF
Circuit Refrigerant PH100-14	CFC-12	F-113	CFC-113
Circuit Refrigerant PH100-20	CFC-12	F-114	CFC-114
CRC Lectra Clean	MCF	F-115	CFC-115
CRC226	MCF	FCC-11	CFC-11
Daiflon 11	CFC-11	FCC-12	CFC-12
Daiflon 113	CFC-113	FCC-13	CFC-13
Daiflon 114	CFC-114	FE-232	HCFC-123
Daiflon 115	CFC-115	FE-241	HCFC-124
Daiflon 12	CFC-12	Film Cleaning Grade	MCF
Daiflon 13	CFC-13	Fire Extinguisher Flugex 12B1	Halon 1211
Daiflon 142b	HCFC-142b	Flon Showa 11	CFC-11
Daiflon 22	HCFC-22	Flon Showa 114	CFC-114
Daiflon 500	CFC-12	Flon Showa 12	CFC-12
Daiflon 502	CFC-115	Flon Showa 13	CFC-13
Daiflon S3	CFC-113	Flon Showa 22	HCFC-22
Daiflon S3-A	CFC-113	Flon Showa 500	CFC-12

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
Flon Showa 502	CFC-115	Freon SMT	CFC-113
Flon Showa FS-3	CFC-113	Freon T-B1	CFC-113
Flon Showa FS-3A	CFC-113	Freon T-DA35	CFC-113
Flon Showa FS-3D	CFC-113	Freon T-DA35X	CFC-113
Flon Showa FS-3E	CFC-113	Freon T-DEC	CFC-113
Flon Showa FS-3ES	CFC-113	Freon T-DECR	CFC-113
Flon Showa FS-3M	CFC-113	Freon T-DFC	CFC-113
Flon Showa FS-3MS	CFC-113	Freon T-DFCX	CFC-113
Flon Showa FS-3P	CFC-113	Freon T-E35	CFC-113
Flon Showa FS-3W	CFC-113	Freon T-E6	CFC-113
Floron 11	CFC-11	Freon T-P35	CFC-113
Floron 12	CFC-12	Freon T-WD602	CFC-113
Floron 22	HCFC-22	Freon TA	CFC-113
Flugene 22	HCFC-22	Freon TDF	CFC-113
Fluorisol	CFC-113	Freon TE	CFC-113
Fluorocarbon 11	CFC-11	Freon TES	CFC-113
Fluorocarbon 114	CFC-114	Freon TF	CFC-113
Fluorocarbon(-)113	CFC-113	Freon TMC	CFC-113
Fluorochloroform	CFC-11	Freon TMS	CFC-113
Fluorocarbon 115	CFC-115	Freon TMS solvents	CFC-113
Forane 11	CFC-11	Freon TP35	CFC-113
Forane 113	CFC-113	Freon TWD 602	CFC-113
Forane 114	CFC-114	FRIGC-FR 12	HCFC-124
Forane 115	CFC-115	Frigen 11	CFC-11
Forane 12	CFC-12	Frigen 113	CFC-113
Forane 123	HCFC-123	Frigen 114	CFC-114
Forane 13	CFC-13	Frigen 115	CFC-115
Forane 141b	HCFC-141b	Frigen 12	CFC-12
Forane 142b	HCFC-142b	Frigen 13	CFC-13
Forane 22	HCFC-22	Frigen 22	HCFC-22
Forane 500	CFC-12	Frigen 500	CFC-12
Forane 502	CFC-115	Frigen TR 113	CFC-113
Forane FX 10	HCFC-22	Friogas 12	CFC-12
Forane FX 20	HCFC-22	Friogas 141b	HCFC-141b
Forane FX 55	HCFC-22	Fronsolve	CFC-113
Forane FX 56	HCFC-22	Fronsolve AD-17	CFC-113
Forane FX 57	HCFC-22	Fronsolve AD-7	CFC-113
Formacel S	HCFC-22	Fronsolve AD-9	CFC-113
Free Zone	HCFC-142b	Fronsolve AD-19	CFC-113
Freeze 12	HCFC-142b	Fronsolve AE	CFC-113
Freeze-It	CFC-12	Fronsolve AES	CFC-113
Freezone	HCFCs	Fronsolve AM	CFC-113
Freon 11	CFC-11	Fronsolve AMS	CFC-113
Freon 113	CFC-113	Fronsolve AP	CFC-113
Freon 114	CFC-114	Fronsolve R 113	CFC-113
Freon 115	CFC-115	FX-56	HCFC-22
Freon 12	CFC-12	G 2015	HCFCs
Freon 13	CFC-13	G Triflon E35	CFC-113
Freon 22	HCFC-22	G 12	CFC-12
Freon 502	CFC-115	G2015	HCFC
Freon MCA	CFC-113	G2018A	HCFC-22
Freon PCA	CFC-113	G2018B	HCFC-22

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
G2018C	HCFC-22	Halon 1211	Halon 1211
Genesolv 2000	HCFC-141b	Halon 1301	Halon 1301
Genesolv 2004	HCFC-141b	Halotron 1	HCFCs
Genesolv 2123	HCFC-123	Halotron 1 Primarily	HCFC-123
Genesolv 2127	HCFC-123	Halotron I	HCFC-123
Genetron 11	CFC-11	HCFC-121	HCFC-121
Genetron 113	CFC-113	HCFC-122	HCFC-122
Genetron 114	CFC-114	HCFC-123	HCFC-123
Genetron 115	CFC-115	HCFC-124	HCFC-124
Genetron 11SBA	CFC-11	HCFC-131	HCFC-131
Genetron 12	CFC-12	HCFC-132	HCFC-132
Genetron 123	HCFC-123	HCFC-133	HCFC-133
Genetron 124	HCFC-124	HCFC-141	HCFC-141
Genetron 13	CFC-13	HCFC-141b	HCFC-141b
Genetron 141b	HCFC-141b	HCFC-142a	HCFC-142a
Genetron 142b	HCFC-142b	HCFC-142b	HCFC-142b
Genetron 22	HCFC-22	HCFC-151	HCFC-151
Genetron 408A	HCFC-22	HCFC-21	HCFC-21
Genetron 409A	HCFC-22	HCFC-22	HCFC-22
Genetron 500	CFC-12	HCFC-221	HCFC-221
Genetron 502	CFC-115	HCFC-222	HCFC-222
Genetron 503	CFC-13	HCFC-223	HCFC-223
Genetron HP80	HCFC-22	HCFC-224	HCFC-224
Genetron HP81	HCFC-22	HCFC-225	HCFC-225
Genetron MP39	HCFC-22	HCFC-226	HCFC-226
Genetron MP66	HCFC-22	HCFC-231	HCFC-231
Genklene A	MCF	HCFC-232	HCFC-232
Genklene LV	MCF	HCFC-233	HCFC-233
Genklene LVJ	MCF	HCFC-234	HCFC-234
Genklene LVS	MCF	HCFC-235	HCFC-235
Genklene LVX	MCF	HCFC-241	HCFC-241
Genklene N	MCF	HCFC-242	HCFC-242
Genklene P	MCF	HCFC-243	HCFC-243
Genklene PT	MCF	HCFC-244	HCFC-244
Gex	MCF	HCFC-251	HCFC-251
GHG-HP	HCFC-22	HCFC-252	HCFC-252
GHG-X4	HCFC-22	HCFC-253	HCFC-253
GHG-X5	HCFC-22	HCFC-261	HCFC-261
GHG	HCFC-22	HCFC-262	HCFC-262
GHG12	HCFC-22	HCFC-271	HCFC-271
Halocarbon 11	CFC-11	HCFC-31	HCFC-31
Halocarbon 113	CFC-113	Helmitin Solvant C678	MCF
Halocarbon 114	CFC-114	Hot Shot	HCFCs
Halocarbon 115	CFC-115	HyperClean Circuit Cleaner	HCFCs
Halocarbon 12	CFC-12	Isceon 11	CFC-11
Halocarbon 12B1	Halon 1211	Isceon 113	CFC-113
Halocarbon 13B1	Halon 1301	Isceon 114	CFC-114
Halocarbure 12	CFC-12	Isceon 115	CFC-115
Halocarbure 11	CFC-11	Isceon 12	CFC-12
Halocarbure 113	CFC-113	Isceon 13	CFC-13
Halocarbure 114	CFC-114	Isceon 22	HCFC-22
Halocarbure 115	CFC-115	Isceon 500	CFC-12

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
Isceon 502	CFC-115	Microduster TX104a	CFC-12
Isceon 69L	HCFC-22	Microduster TX600	CFC-12
Isceon 69S	HCFC-22	Minus 62 Instant Chiller # 1669-16S	CFC-12
JS-536B	MCF	Molecular N.F. Cleaner/Degreaser	MCF
K1144 Ultra Sol	MCF	Molybkombin UMFT4	MCF
K12	CFC-12	Molybkombin UMFT4 Spray	MCF
K120	MCF	Monobromomethane	MBr
K120 N.F.S. Solvant inflammable	MCF	Monochloromonobromomethane	BCM
K120 Solvent	MCF	Monochloropentafluoroethane	CFC-115
K7 FC-700 nettoyeur pour tissus	MCF	MS-122N	HCFC-141b
Kaiser Chemical 12	CFC-12	MS-136N	MCF
Kaltron	CFC-113	MS-143	HCFC-141b
Kaltron 11	CFC-11	MS-170 1,1,1-Trichloroethane Solv.	MCF
Kanden Triethane	MCF	MS-180 NR.226 Electro Contact	CFC-113
Keykleen 503	MCF	MS-240 Quick-Freeze	CFC-12
Khladon	CFC-11	MS-938	HCFC-141b
Kodak Movie Film Cleaner	MCF	MU711	HCFC-21
Konden Triéthane	MCF	MU711	HCFC-22
Korfron 11	CFC-11	MV3	MCF
Korfron 12	CFC-12	NAF P-III	HCFC-123
Korfron 141b	HCFC-141b	NAF S-III	HCFC-22
Korfron 142b	HCFC-142b	Nanofron	CFC-113
Korfron 22	HCFC-22	NC-123	MCF
Krylon Dulling Spray	MCF	NCI-C04626	MCF
Laser Dry Spot Liquid Buffer	MCF	Necatorina	CT
Ledon 11	CFC-11	Nettoyant B-70	MCF
Ledon 113	CFC-113	Nettoyeur à contact NR226	CFC-113
Ledon 114	CFC-114	Nettoyeur à tissus	MCF
Ledon 12	CFC-12	Nettoyeur contact # 1328 Krylon	MCF
Loctite 75559	MCF	Nettoyeur H et M	MCF
Loctite Safety Solvent	MCF	New Dine T	MCF
Mafron 11	CFC-11	Niax-11	CFC-11
Mafron 12	CFC-12	Niax 12	CFC-12
Magicdry MD-	CFC-113	Niax Blowing Agent 12	CFC-12
MCF	MCF	Nicer'n ice 99900403	CFC-12
Meforex 123	HCFC-123	Nicrobraz Cement xxx	MCF
Meforex 124	HCFC-124	Nilos Solution xxx xx	MCF
Meforex 141b	HCFC-141b	Norchem xx xxx xxx	MCF
Meforex 142b	HCFC-142b	Oxyfume 12	CFC-12
Methane dichlorodifluoro	CFC-12	Oxyfume 2000	HCFC-124
Methane Tetrachloride	CT	Oxyfume 2002	HCFC-124
Methane tetrachloro	CT	PC 81x	MCF
Meth-O-Gas 100	MBr	Penngas 2	HCFCs
Meth-O-Gas Q	MBr	Pentafluoroethylchloride	CFC-115
Methyl bromide	MBr	Perchloromethane,	CT
Methyl chloroform	MCF	Perfluoroethyl chloride	CFC-115
Methyl Chloroform Technical	MCF	Picrin	MCF
Methyl Chloroform Low Stabilized	MCF	Polioi Poliuretano ICI	HCFC-141b
Methyl monobromide	MBr	Precision Duster	CFC-12
Methylene chlorobromide	BCM	Precision Duster Non-Liquid	CFC-12
Methyltrichloromethane	MCF	Prelete	MCF
Microduster TX104	CFC-12	Proact	MCF

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
Propaklone	MCF	Rolyen Cold Spray	CFC-12
Propellant 11	CFC-11	Rust Inhibitor B007	MCF
Propellant 114	CFC-114	S.E.M.I Grade	MCF
Propellant 115	CFC-115	Safety Solvent 8060	MCF
Propellant 12	CFC-12	Safety Solvent (Aerosol) 75-563	MCF
Propulseur 114	CFC-114	Safety Solvent (Aerosol) 755-59	MCF
Propulseur 115	CFC-115	Safety Solvent 755-71	MCF
Propulseur 12	CFC-12	Safety Solvent 75563	MCF
Quick Freeze Shandon	CFC-12	Sanfax Pick-One	MCF
R-113	CFC-113	Sérétine	CT
R-114B2 (1 and 2)	CFC-114	Shine Pearl	MCF
R-115	CFC-115	SIENKATANSO	CT
R-401A	HCFCs	Solkane 123	HCFC-123
R-401B	HCFCs	Solkane 141b	HCFC-141b
R-401C	HCFCs	Solkane 141b DH	HCFC-141b
R-402A	HCFC-22	Solkane 141b MA	HCFC-141b
R-402B	HCFC-22	Solkane 141b WE	HCFC-141b
R-403A	HCFC-22	Solkane 142b	HCFC-142b
R-403B	HCFC-22	Solkane 22	HCFC-22
R-405A	HCFCs	Solkane 22 / 142b	HCFCs
R-406A	HCFCs	Solkane 406A	HCFC-22
R-408A	HCFC-22	Solkane 409A	HCFC-22
R-409A	HCFCs	Solkane 507	MCF
R-409B	HCFCs	Solvethane	MCF
R-411A	HCFC-22	Sonic Solve	CFC-113
R-411B	HCFC-22	Sonic Solve xxx	MCF
R-412A	HCFCs	Spotchek Cleaner/Remover	MCF
R-414A	HCFCs	SS-25	MCF
R-414B	HCFCs	Sunlovely	MCF
R-415A	HCFC-22	Super Solution	MCF
R-500	CFC-12	Suva 123	HCFC-123
R-501	CFC-12	Suva 124	HCFC-124
R-502	CFC-115	Suva 125	HCFC-125
R-503	CFC-13	Suva HP80	HCFC-22
R-504	CFC-115	Suva HP81	HCFC-22
R-505	CFC-12	Suva MP39	HCFCs
R-506	CFC-114	Suva MP52	HCFCs
R-509A	HCFC-22	Suva MP66	HCFCs
R11	CFC-11	Swish	MCF
R12	CFC-12	Tafclen	MCF
RCRA Waste Number 226	MCF	Taisoton 12	CFC-12
Refrigerant 11	CFC-11	Taisoton 22	HCFC-22
Refrigerant 113	CFC-113	TCTFE	CFC-113
Refrigerant 114	CFC-114	Tempilaq	MCF
Refrigerant 115	CFC-115	Terr-O-Gas	MBr
Refrigerant 12	CFC-12	Tetrachloromethane	CT
Refrigerant 500	CFC-12	Tetrachlorure de carbon	CT
Refrigerant 501	CFC-12	Tetrachlorure de carbone ACS	CT
Refrigerant 502	CFC-115	Three Bond 1802	MCF
Refrigerant 504	CFC-115	Three Bond xxx	MCF
Refrigerant/Aerosol MS-240	CFC-12	Three One-A	MCF
Roberts 931 Seaming Adhesive	MCF	Three One-AH	MCF

<b>Common/Trade Names</b>	<b>Controlled Substance</b>	<b>Common/Trade Names</b>	<b>Controlled Substance</b>
Three One-EX	MCF	Toyoclean T	MCF
Three One-F	MCF	Triethane PPG	MCF
Three One-HS	MCF	Tri-Ethane	MCF
Three One-R	MCF	Trichloro-1,1,1 ethane	MCF
Three One-S	MCF	Trichloroethane	MCF
Three One-T	MCF	Trichlorofluorocarbon	CFC-11
Three One-TH	MCF	Trichlorofluoromethane	CFC-11
Tipp-Ex	MCF	Trichloromethylfluoride	CFC-11
Toyoclean	MCF	Trichloromonofluoromethane	CFC-11
Toyoclean AL	MCF	Trichlorotrifluoromethane	CFC-113
Toyoclean ALS	MCF	Urethane Resine	HCFC-141b
Toyoclean EE	MCF	Wax solvent 83	MCF
Toyoclean EM	MCF	Wei T'o cleaning solution	HCFC-141b
Toyoclean HS	MCF	Wei T'o liquefied (22) gas	HCFC-22
Toyoclean IC	MCF	deacidification solution	
Toyoclean NH	MCF	Wei T'o soft spray	HCFC-141b
Toyoclean O	MCF	Wei T'o solution #2	HCFC-141b
Toyoclean SE	MCF		

## APPENDIX C

**LIST OF COUNTRIES THAT ARE A PARTY TO THE MONTREAL PROTOCOL  
(as off May 19, 2010)**

For updates, please refer to the United Nations Environment Program Web site at the following link: <http://ozone.unep.org>.

- |   |                                      |                                       |
|---|--------------------------------------|---------------------------------------|
| 1. Afghanistan                            | 48. Democratic Republic of the Congo | 95. Lao People's Democratic Republic  |
| 2. Albania                                | 49. Denmark                          | 96. Latvia                            |
| 3. Algeria                                | 50. Djibouti                         | 97. Lebanon                           |
| 4. Andorra                                | 51. Dominica                         | 98. Lesotho                           |
| 5. Angola                                 | 52. Dominican Republic               | 99. Liberia                           |
| 6. Antigua and Barbuda                    | 53. Ecuador                          | 100. Libyan Arab Jamahiriya           |
| 7. Argentina                              | 54. Egypt                            | 101. Liechtenstein                    |
| 8. Armenia                                | 55. El Salvador                      | 102. Lithuania                        |
| 9. Australia                              | 56. Equatorial Guinea                | 103. Luxembourg                       |
| 10. Austria                               | 57. Eritrea                          | 104. Madagascar                       |
| 11. Azerbaijan                            | 58. Estonia                          | 105. Malawi                           |
| 12. Bahamas                               | 59. Ethiopia                         | 106. Malaysia                         |
| 13. Bahrain                               | 60. European Community               | 107. Maldives                         |
| 14. Bangladesh                            | 61. Fiji                             | 108. Mali                             |
| 15. Barbados                              | 62. Finland                          | 109. Malta                            |
| 16. Belarus                               | 63. France                           | 110. Marshall Islands                 |
| 17. Belgium                               | 64. Gabon                            | 111. Mauritania                       |
| 18. Belize                                | 65. Gambia                           | 112. Mauritius                        |
| 19. Benin                                 | 66. Georgia                          | 113. Mexico                           |
| 20. Bhutan                                | 67. Germany                          | 114. Micronesia (Federated States of) |
| 21. Bolivia                               | 68. Ghana                            | 115. Monaco                           |
| 22. Bosnia and Herzegovina                | 69. Greece                           | 116. Mongolia                         |
| 23. Botswana                              | 70. Grenada                          | 117. Montenegro                       |
| 24. Brazil                                | 71. Guatemala                        | 118. Morocco                          |
| 25. Brunei Darussalam                     | 72. Guinea                           | 119. Mozambique                       |
| 26. Bulgaria                              | 73. Guinea-Bissau                    | 120. Myanmar                          |
| 27. Burkina Faso                          | 74. Guyana                           | 121. Namibia                          |
| 28. Burundi                               | 75. Haiti                            | 122. Nauru                            |
| 29. Cambodia                              | 76. Holy See                         | 123. Nepal                            |
| 30. Cameroon                              | 77. Honduras                         | 124. Netherlands                      |
| 31. Canada                                | 78. Hungary                          | 125. New Zealand                      |
| 32. Cape Verde                            | 79. Iceland                          | 126. Nicaragua                        |
| 33. Central African Republic              | 80. India                            | 127. Niger                            |
| 34. Chad                                  | 81. Indonesia                        | 128. Nigeria                          |
| 35. Chile                                 | 82. Iran (Islamic Republic of)       | 129. Niue                             |
| 36. China                                 | 83. Iraq                             | 130. Norway                           |
| 37. Colombia                              | 84. Ireland                          | 131. Oman                             |
| 38. Comoros                               | 85. Israel                           | 132. Pakistan                         |
| 39. Congo                                 | 86. Italy                            | 133. Palau                            |
| 40. Cook Islands                          | 87. Jamaica                          | 134. Panama                           |
| 41. Costa Rica                            | 88. Japan                            | 135. Papua New Guinea                 |
| 42. Côte d'Ivoire                         | 89. Jordan                           | 136. Paraguay                         |
| 43. Croatia                               | 90. Kazakhstan                       | 137. Peru                             |
| 44. Cuba                                  | 91. Kenya                            | 138. Philippines                      |
| 45. Cyprus                                | 92. Kiribati                         | 139. Poland                           |
| 46. Czech Republic                        | 93. Kuwait                           | 140. Portugal                         |
| 47. Democratic People's Republic of Korea | 94. Kyrgyzstan                       | 141. Qatar                            |

- |  |   |   |
|--|---|---|
| 142. Republic of Korea                   | 161. Solomon Islands                              | 180. Turkey   |
| 143. Republic of Moldova                 | 162. Somalia                                      | 181. Turkmenistan   |
| 144. Romania                             | 163. South Africa                                 | 182. Tuvalu   |
| 145. Russian Federation                  | 164. Spain  | 183. Uganda   |
| 146. Rwanda                              | 165. Sri Lanka                                    | 184. Ukraine  |
| 147. Saint Kitts and Nevis               | 166. Sudan  | 185. United Arab Emirates                                       |
| 148. Saint Lucia                         | 167. Suriname                                     | 186. United Kingdom of Great<br>Britain and Northern<br>Ireland |
| 149. Saint Vincent and the<br>Grenadines | 168. Swaziland                                    | 187. United Republic of Tanzania                                |
| 150. Samoa                               | 169. Sweden                                       | 188. United States of America                                   |
| 151. San Marino                          | 170. Switzerland                                  | 189. Uruguay  |
| 152. Sao Tome and Principe               | 171. Syrian Arab Republic                         | 190. Uzbekistan   |
| 153. Saudi Arabia                        | 172. Tajikistan                                   | 191. Vanuatu  |
| 154. Senegal                             | 173. Thailand                                     | 192. Venezuela (Bolivarian<br>Republic of)                      |
| 155. Serbia                              | 174. The Former Yugoslav<br>Republic of Macedonia | 193. Viet Nam   |
| 156. Seychelles                          | 175. Timor-Leste                                  | 194. Yemen  |
| 157. Sierra Leone                        | 176. Togo   | 195. Zambia   |
| 158. Singapore                           | 177. Tonga  | 196. Zimbabwe   |
| 159. Slovakia                            | 178. Trinidad and Tobago                          |   |
| 160. Slovenia                            | 179. Tunisia                                      |   |

**APPENDIX D****LIST OF DEVELOPING COUNTRIES FOR THE EXPORT OF  
CONTROLLED ODS PRODUCTS (as of September 23, 2009)**

For updates, please refer to the United Nations Environment Program Web site at the following link : <http://ozone.unep.org>.

- |                                   |   |   |
|-----------------------------------|---|---|
| 1. Afghanistan                    | 51. Ghana                                     | 99. Oman  |
| 2. Albania                        | 52. Grenada                                   | 100. Pakistan                                     |
| 3. Algeria                        | 53. Guatemala                                 | 101. Palau  |
| 4. Angola                         | 54. Guinea                                    | 102. Panama                                       |
| 5. Antigua & Barbuda              | 55. Guinea Bissau                             | 103. Papua New Guinea                             |
| 6. Argentina                      | 56. Guyana                                    | 104. Paraguay                                     |
| 7. Armenia                        | 57. Haiti                                     | 105. Peru   |
| 8. Bahamas                        | 58. Honduras                                  | 106. Philippines                                  |
| 9. Bahrain                        | 59. India                                     | 107. Qatar  |
| 10. Bangladesh                    | 60. Indonesia                                 | 108. Rwanda                                       |
| 11. Barbados                      | 61. Iran, Islamic Republic of                 | 109. Saint Kitts and Nevis                        |
| 12. Belize                        | 62. Iraq                                      | 110. Saint Lucia                                  |
| 13. Benin                         | 63. Jamaica                                   | 111. Saint Vincent & the Grenadines               |
| 14. Bhutan                        | 64. Jordan                                    | 112. Samoa  |
| 15. Bolivia                       | 65. Kenya                                     | 113. Sao Tome and Principe                        |
| 16. Bosnia and Herzegovina        | 66. Kiribati                                  | 114. Saudi Arabia                                 |
| 17. Botswana                      | 67. Korea, People's Democratic<br>Republic of | 115. Senegal                                      |
| 18. Brazil                        | 68. Korea, Republic of                        | 116. Serbia                                       |
| 19. Brunei Darussalam             | 69. Kuwait                                    | 117. Seychelles                                   |
| 20. Burkina Faso                  | 70. Kyrgyzstan                                | 118. Sierra Leone                                 |
| 21. Burundi                       | 71. Lao People's Democratic<br>Republic       | 119. Singapore                                    |
| 22. Cambodia                      | 72. Lebanon                                   | 120. Solomon Islands                              |
| 23. Cameroon                      | 73. Lesotho                                   | 121. Somalia                                      |
| 24. Cape Verde                    | 74. Liberia                                   | 122. South Africa                                 |
| 25. Central African Republic      | 75. Libyan Arab Jamahiriya                    | 123. Sri Lanka                                    |
| 26. Chad                          | 76. Madagascar                                | 124. Sudan  |
| 27. Chile                         | 77. Malawi                                    | 125. Suriname                                     |
| 28. China                         | 78. Malaysia                                  | 126. Swaziland                                    |
| 29. Colombia                      | 79. Maldives                                  | 127. Syrian Arab Republic                         |
| 30. Comoros                       | 80. Mali                                      | 128. Tanzania, United Republic of                 |
| 31. Congo                         | 81. Marshall Islands                          | 129. Thailand                                     |
| 32. Congo, Democratic Republic of | 82. Mauritania                                | 130. The Former Yugoslav Republic<br>of Macedonia |
| 33. Cook Islands                  | 83. Mauritius                                 | 131. Timor-Leste                                  |
| 34. Cost Rica                     | 84. Mexico                                    | 132. Togo   |
| 35. Côte d'Ivoire                 | 85. Micronesia, Federal States of             | 133. Tonga  |
| 36. Croatia                       | 86. Moldova                                   | 134. Trinidad and Tobago                          |
| 37. Cuba                          | 87. Mongolia                                  | 135. Tunisia                                      |
| 38. Djibouti                      | 88. Montenegro                                | 136. Turkey                                       |
| 39. Dominica                      | 89. Morocco                                   | 137. Turkmenistan                                 |
| 40. Dominican Republic            | 90. Mozambique                                | 138. Tuvalu                                       |
| 41. Ecuador                       | 91. Myanmar                                   | 139. Uganda                                       |
| 42. Egypt                         | 92. Namibia                                   | 140. United Arab Emirates                         |
| 43. El Salvador                   | 93. Nauru                                     | 141. Uruguay                                      |
| 44. Equatorial Guinea             | 94. Nepal                                     | 142. Vanuatu                                      |
| 45. Eritrea                       | 95. Nicaragua                                 | 143. Venezuela                                    |
| 46. Ethiopia                      | 96. Niger                                     | 144. Viet Nam                                     |
| 47. Fiji                          | 97. Nigeria                                   | 145. Yemen  |
| 48. Gabon                         | 98. Niue                                      | 146. Zambia                                       |
| 49. Gambia                        |   | 147. Zimbabwe                                     |
| 50. Georgia                       |   |   |

**APPENDIX E****EXAMPLES OF PRODUCTS THAT MAY CONTAIN OZONE-DEPLETING SUBSTANCES****Aerosol spray cans containing:**

- (a) CFCs – prohibited
  - (b) 2 kg or less of any HCFC – prohibited
  - (c) more than 2 kg of any HCFC – exempted
1. Some products in an aerosol spray can might use CFCs or HCFCs as a propellant or as a slurring agent, e.g., deodorants, hair sprays, party string, and antiperspirants.
  2. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)] or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Automotive air conditioning refill kits containing:**

- (a) new CFCs – prohibited
  - (b) recovered CFCs – conditional
  - (c) Refrigerant 500, 501, 502, 504 – exempted
3. These kits might include small containers of refrigerants used to recharge automobile air-conditioning units and contain about 340 grams of CFC-12. They are sold to auto dealers, repair shops and, through retail outlets, to the public.
  4. It is prohibited to import: pressurized containers containing any new CFC [ODSR 1998, subsection 18(1)].
  5. Pressurized containers where the CFC is a recovered CFC that are sold to be recycled or reclaimed and that will be used as a refrigerant are not controlled [ODSR 1998, Subsection 20(6)b)].
  6. Pressurized containers where the CFC is in any of the following mixtures: refrigerant 500, refrigerant 501, refrigerant 502 or refrigerant 504 are not controlled [ODSR 1998, Subsection 20(6)a)].

**Cooling sprays containing:**

- (a) CFCs – prohibited
  - (b) 2 kg or less of any HCFC – prohibited
  - (c) more than 2 kg of any HCFC – exempted
7. Cooling sprays provide a freezing spray of gas and are sold in aerosol cans. Cooling sprays provide a clean, portable, and compact source of temporary cooling. They are used in the electronics industry, the research field, and in the assembly of shrink fit machine parts. Cooling sprays are sold through electrical, electronic, and scientific supply companies.
  8. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)] or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Dust-off sprays containing:**

- (a) CFCs – prohibited
  - (b) 2 kg or less of any HCFC – prohibited
  - (c) more than 2 kg of any HCFC – exempted
9. Dust-off sprays provide a gentle stream of gas to blow dust and other contaminants off fragile surfaces, such as optical lenses, mirrors, film negatives, polished metal surfaces, art work and electrical and electronic components. Dust-off sprays, sold in standard aerosol spray cans, have many uses and are usually sold through:
    - (a) scientific, laboratory and medical supply companies;
    - (b) art supply stores;
    - (c) camera, photographic and optical equipment supply companies;
    - (d) electrical and electronic supply companies;

- (e) hobby shops;
- (f) audio and video retail and service shops; and
- (g) computer stores.

10. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)]; or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)]

**Lubricant, coating or cleaning solvents for electrical or electronic equipment containing:**

- (a) CFCs – prohibited
- (b) 2 kg or less of any HCFC – prohibited
- (c) more than 2 kg of any HCFC – exempted

11. CFCs were used extensively in the electronics industry as a cleaning solvent. HCFCs replaced them. They are sometimes packaged in pressurized aerosol spray cans and sold as a cleaner for electrical and electronic equipment, audio and visual service, and optical devices.
12. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)]; or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Lubricants in mining operations containing:**

- (a) CFCs – prohibited
- (b) 2 kg or less of any HCFC – prohibited
- (c) more than 2 kg of any HCFC – exempted

13. Lubricants have been developed to safeguard open gears, cables, and wire ropes on large machinery for use in mining operations. CFC or HCFC propellants are used in this application because they are non-flammable and the CFCs or HCFCs are generally recognized to be non-toxic for humans but are toxic for the environment.
14. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)]; or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Mold release agents containing:**

- (a) CFCs – prohibited
- (b) HCFCs – exempted

15. Mold release agents are lubricants that are applied to the surface of molds before injection of plastic or elastomeric material. Mold release agents are packaged in aerosol spray cans. This product is a specialty item sold primarily to commercial users.
16. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)].
17. This type of spray can be imported in pressurized containers containing: any HCFC [ODSR 1998, paragraph 23(3)(a)].

**Pest control products containing:**

- (a) CFCs – prohibited
- (b) pressurized container of 2 kg or less of HCFC – prohibited
- (c) pressurized container of more than 2 kg of HCFC – exempted
- (d) Methyl bromide – controlled

18. The import is prohibited unless it contains methyl bromide. In this case the importer must have an import permit for critical use, quarantine application, pre-shipment application or emergency use.

**Plastic foams, including rigid foams (e.g., foam insulation) and flexible foams (e.g., carpet underpadding)]**

- (a) Plastic foams containing CFCs – prohibited
  - (b) Flexible plastic foam containing HCFCs – prohibited
  - (c) Rigid foam containing HCFCs other than HCFC-22, HCFC-141b and HCFC-142b – exempted
19. This type of products cannot be imported if containing any CFC [ODSR 1998, subsection 18(1)]; or any HCFC in flexible foam [ODSR 1998, subsection 24(1)].
20. This type of products can be imported in pressurized containers containing any HCFC in rigid foam other than HCFC-22, HCFC-141b and HCFC-142b [ODSR 1998, paragraph 23(3)(f)].

**“Polyol” (manufacture or importation) containing HCFC other than HCFC-22, HCFC-141b and HCFC-142b – exempted**

21. A polyol is a mixture of polyalcohol, which is one component of a two component system used to manufacture polyurethane foams in which HCFCs are used as foaming agents. The polyol mixture is considered a product containing or designed to contain ODS. This type of mixture is a polyurethane prepolymer.
22. The importation and manufacture of polyol containing an HCFC other than HCFC-22, HCFC-141b and HCFC-142b are not controlled in Canada. However, the importation of HCFC-141b, the only HCFC used in the manufacture of polyol, is prohibited for that purpose.

**Protective sprays for documents containing:**

- (a) CFCs – prohibited
  - (b) HCFCs – exempted
23. Sometimes placing a photographic print or a film negative against a glass surface can produce a rainbow effect. To prevent this, the print or the negative is sprayed with a protective coating which separates the film from the glass just enough to prevent the effect. It provides a very fine and uniform aerosol and it does not react with the photographic emulsion.
24. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)].
25. This type of spray can be imported in pressurized containers containing any HCFC [ODSR 1998, paragraph 23(3)(c)].

**Refrigerant R-412A and refrigerant R-509A - exempted**

26. The import of pressurized containers containing these two products is not controlled [ODSR 1998, paragraphs 23(3)(h) and 23(3)(i)].

**Domestic and commercial refrigeration and air conditioning/heat pump equipment containing or designed to contain:**

- (a) CFCs – prohibited
  - (b) HCFC-22, HCFC-141b and HCFC-142b – prohibited
  - (c) HCFCs other than HCFC-22, HCFC-141b and HCFC-142b – exempted
27. Used refrigeration equipment (for example refrigerators, freezers, dehumidifiers, water coolers, ice machines, air conditioning and heat pump units) may have a compressor containing CFCs. Even if the compressor has been emptied of the CFCs, the compressor is still designed to contain CFCs. Therefore, the importation of this equipment is prohibited [ODSR 1998, subsection 18(1)].
28. If the products contain or are designed to contain CFCs that are personal or household effects and are intended for the importer’s personal use only, then their importation is allowed [ODSR 1998, subsection 20(3)].

**Automobile and truck air conditioning units (whether or not incorporated in vehicles) containing or designed to contain CFCs - prohibited**

29. Car compressors from used cars often contain CFCs. Even if the compressor has been emptied of the CFCs, the compressor is still designed to contain CFCs. Therefore, the importation of the equipment is prohibited [ODSR 1998, subsection 18(1)].

**Exempted:**

- (a) products that contain or are designed to contain CFCs that are imported and that are personal or household effects and intended for the importer's personal use only [ODSR 1998, subsection 20(3)]; for example, a person travelling in a car equipped with an air conditioning unit containing CFCs is allowed to come into Canada.
- (b) aircraft, ships or any vehicle manufactured before January 1, 1999 [ODSR 1998, subsection 20(2)].

**Signal horns containing:**

- (a) CFCs – prohibited
  - (b) 2 kg or less of any HCFC – prohibited
  - (c) more than 2 kg of any HCFC – exempted
30. Signal horns operate by using a pressurized gas. They are sold through safety supply companies for use by workers in hazardous locations such as isolated spaces, factory floors, and docking yards. Signal horns are also sold through boating supply companies as emergency boat or fog horns. Pocket-and purse-size devices are sold at the retail level as personal distress signals and for protection against threatening animals.
31. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)] or 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Spinnerette lubricant or cleaning spray containing:**

- (a) CFCs – prohibited
  - (b) HCFCs – exempted
32. A spinnerette is a special form of extrusion head for producing fibers.
33. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)].
34. This type of spray can be imported in pressurized containers containing any HCFC [ODSR 1998, paragraph 23(3)(b)].

**Total flooding system containing:**

- (a) 2 kg or less of any HCFC for residential use – prohibited
  - (b) more than 2 kg of any HCFC – exempted
  - (c) halons for use in aircraft or military ships or military vehicles – exempted
  - (d) HCFCs for non residential use (fire extinguishing) – exempted
35. A total flooding system releases an extinguishing agent (gas, foam) into a confined space to extinguish a fire within that space. This type of system is also designated as Total Flooding Extinguishing System or Total Flooding Fixed System. Total flooding systems are mainly used in computer room or where sensitive instruments are used.
36. The importation of a total flooding system, **if it contains halons**, is authorized only in cases where the equipment is to be used in aircraft or military ships or military vehicles. In such cases, the container serves not only to transport or store the controlled substance but is an integral part of its use, such that the entire system is considered a product containing or designed to contain ODS [ODSR 1998, paragraph 20(1)(b)].
37. Fire extinguishing systems containing HCFC for **non-residential** applications are exempted and can be imported [ODSR 1998, paragraph 23(3)(d)].
38. The import of fire extinguishing systems containing HCFC for **residential** applications is prohibited if they are pressurized containers that contain 2 kg or less of any HCFC [ODSR 1998, subsection 23(1)].

**Wasp or hornet spray containing:**

- (a) CFCs – prohibited
  - (b) HCFCs – exempted
39. This type of spray cannot be imported in pressurized containers containing any CFC [ODSR 1998, subsection 18(1)].
40. This type of spray can be imported in pressurized containers containing any HCFC [ODSR 1998, paragraph 23(3)(e)].

## APPENDIX F

**ENVIRONMENT CANADA REGIONAL OFFICES  
24-HOUR RESPONSE LINES**

REGION	TELEPHONE
<b>Atlantic</b>	902-430-2383
<b>Québec</b>	866-283-2333
<b>Ontario</b>	416-460-8912
<b>Prairie and Northern</b>	
Manitoba Office	204-981-7111
Saskatchewan Office	306-536-9991
Alberta Office	780-499-2432
Northwest Territories (including Nunavut)	867-920-8130
<b>Pacific and Yukon</b>	
Vancouver Office	604-666-6100
Whitehorse Office	867-667-7244

## APPENDIX G

## SAMPLE OF PERMIT ISSUED BY ENVIRONMENT CANADA

Ottawa ON K1A 0H3

- |                                     |                        |
|-------------------------------------|------------------------|
| <input type="checkbox"/>            | Allowance / Allocation |
| <input checked="" type="checkbox"/> | Permit / Permis        |
| <input type="checkbox"/>            | Transfer / Cession     |

PROTECTED / PROTÉGÉ

Company name / Nom de la compagnie Contact name / Nom de la personne-ressource Title of contact person / Titre de la personne-ressource Address / Adresse City, Province / Ville, Province Postal Code / Code postal
---

Reference / Référence : ODS-PER-07123
---------------------------------------

**Permit to Import Hydrochlorofluorocarbons (HCFCs)**

Pursuant to Paragraph 33(1)(c) of the *Ozone-depleting Substances Regulations, 1998* of the *Canadian Environmental Protection Act, 1999*

**Permis d'importer des hydrochlorofluorocarbures (HCFC)**

en vertu de l'alinéa 33(1)c) du *Règlement sur les substances appauvrissant la couche d'ozone (1998)* de la *Loi canadienne sur la protection de l'environnement (1999)*

In response to your Application for a *Permit to Manufacture or Import a Controlled Substance for a Purpose Set Out in Schedule 3*, dated February 5th, 2007, I authorize Your Company to import the following calculated level of hydrochlorofluorocarbons from the United States of America for 2007:

Pour faire suite à votre *Demande de permis de fabrication ou d'importation d'une substance contrôlée pour une fin visée à l'annexe 3*, datée du 5 février 2007, j'autorise Votre Compagnie à importer des États-Unis d'Amérique, le niveau calculé suivant d'hydrochlorofluorocarbures pour l'année 2007 :

Group	Controlled substance	Quantity	ODP	Calculated level
Groupe	Substance contrôlée	Quantité	PACO	Niveau calculé
9	HCFC-22	20 000 kg	0.055	1 100 kg

The above allotment is being granted on the basis that Your Company will import hydrochlorofluorocarbons to be used for analytical standard and undertakes not to sell or otherwise supply any of these quantities to any person who has not completed and signed a declaration set out in Form 5.7. A copy of Form 5.7 is attached.

Ces quantités sont attribuées en tenant compte que Votre Compagnie importera des hydrochlorofluorocarbures devant servir uniquement comme étalon analytique et que Votre Compagnie s'engage à ne pas vendre ou fournir ces substances à une personne qui n'aurait pas rempli et signé la Déclaration d'utilisation à une fin visée à l'annexe 3 (formulaire 5.7, ci-joint).

The permit is in effect as of today and will end on December 31, 2007.

Ce permis entre en vigueur dès aujourd'hui et se termine le 31 décembre 2007.

1/2

The issuance of this permit is accompanied by certain obligations and requirements. Please read the attachment for more details. A permit issued under the *Ozone-depleting Substances Regulations, 1998* does not remove or override a person's or company's obligation to comply with other legislation.

If you have any questions concerning the *Ozone-depleting Substances Regulations, 1998*, please contact Mr. Patrice Doré at 819-994-0009.

Sincerely,

La délivrance de ce permis est accompagnée de certaines obligations et exigences. Veuillez consulter le document supplémentaire ci-joint pour avoir de plus amples renseignements. Un permis délivré en vertu du *Règlement sur les substances appauvrissant la couche d'ozone (1998)* n'élimine pas l'obligation pour une personne ou une entreprise de se conformer à toute autre législation.

Si vous avez des questions sur le *Règlement sur les substances appauvrissant la couche d'ozone (1998)*, veuillez communiquer avec M. Patrice Doré au 819-994-0009.

Veuillez agréer, Monsieur, mes sincères salutations.

Le directeur

Director's name and signature

Director  
Chemicals Production Division  
Environment Canada  
On behalf of the Minister of the Environment

Division de la production des produits chimiques  
Environnement Canada  
Au nom du ministre de l'Environnement

Attachment / p.j.

2/2

Ottawa ON K1A 0H3

<input checked="" type="checkbox"/>	Allowance / Allocation
<input type="checkbox"/>	Permit / Permis
<input type="checkbox"/>	Transfer / Cession

PROTECTED / PROTÉGÉ

Reference / Référence : ODS-ALL-08001

Company name / Nom de la compagnie  
 Contact name / Nom de la personne-ressource  
 Title of contact person / Titre de la personne-ressource  
 Address / Adresse  
 City, Province / Ville, Province  
 Postal Code / Code postal

**Baseline Consumption Allowance of Hydrochlorofluorocarbons (HCFCs)**

Pursuant to paragraph 8(3)(c) of the *Ozone-depleting Substances Regulations, 1998* of the *Canadian Environmental Protection Act, 1999*

**Allocation de consommation de base d'hydrochlorofluorocarbures (HCFC)**

en vertu de l'alinéa 8(3)c) du *Règlement sur les substances appauvrissant la couche d'ozone (1998)* de la *Loi canadienne sur la protection de l'environnement (1999)*

The purpose of this letter is to inform Company Name of the determination of its consumption allowance of HCFCs for the year 2008. According to the amendments to the *Ozone-depleting Substances Regulations, 1998* that came into force on January 1st, 2005, the initial consumption allowances for 2008 are calculated based on the average of the calculated level of consumption of HCFCs in 2004 and 2005 for the authorized sector of cooling, whether in refrigeration or air-conditioning, and for the authorized sector of any other application.

L'objet de cette lettre est d'informer Nom de compagnie de leur calcul d'allocation de consommation de HCFC pour l'année 2008. Conformément aux modifications au *Règlement sur les substances appauvrissant la couche d'ozone (1998)* qui sont entrées en vigueur le 1er janvier 2005, les allocations de consommation initiale pour 2008 sont calculées avec la moyenne des niveaux calculés de consommation de HCFC pour 2004 et 2005 pour le domaine autorisé du refroidissement, qu'il s'agisse de la réfrigération ou de la climatisation et pour le domaine autorisé des autres utilisations.

According to subsections 10(3.02) and 10(3.03) of the *Ozone-depleting Substances Regulations, 1998*, permanent transfers were subtracted or added, as the case may be, for the purpose of calculating a person's initial consumption allowance of HCFCs for 2008 for each sector.

Conformément aux paragraphes 10(3.02) et 10(3.03) du *Règlement sur les substances appauvrissant la couche d'ozone (1998)*, les cessions permanentes ont été soustraites ou ajoutées selon le cas, au calcul de l'allocation de consommation initiale de HCFC d'une personne pour 2008 pour chaque domaine autorisé.

Also for the purpose of calculating a person's initial consumption allowance of HCFCs for 2008 for each sector, when the person's calculated level of consumption for a year used for the calculation is equal to 90% or more of the person's consumption allowance, the calculated level of consumption for the year used for the calculation is equivalent to the person's total consumption allowance of HCFCs.

Aux fins de calcul de l'allocation de consommation initiale de HCFC d'une personne pour 2008 pour chaque domaine autorisé, dans le cas où le niveau calculé de consommation pour une année utilisée pour ce calcul atteint 90 % ou plus de l'allocation de consommation de cette personne, le niveau calculé de consommation pour l'année utilisée pour le calcul est égal à la totalité de l'allocation de consommation de HCFC.

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Company Name has reported the following calculated levels of consumption:

Nom de compagnie a rapporté les consommations suivantes :

	2004	2005
<b>For cooling, whether in refrigeration or air conditioning / Pour le refroidissement, soit la réfrigération soit la climatisation</b>	<b>869 kg</b>	<b>943 kg</b>
<b>For use in any other application / Pour les autres utilisations</b>	...	...

Following the calculation of initial allowances for all companies for both sectors, if the sum of all initial consumption allowances of HCFCs reach more than 90% of Canada's maximum consumption of HCFCs allowed under the *Montreal Protocol on Substances that Deplete the Ozone Layer*, the maximum quantity available will be completely distributed proportionately to companies that reported activities as per subsection 10(4) of the *Ozone-depleting Substances Regulations, 1998*. This is the case in 2008.

Suite au calcul de toutes les allocations de consommation initiales pour les deux domaines autorisés, si la somme de toutes les allocations de consommation initiales atteint 90 % de la consommation canadienne maximale de HCFC admissible selon le *Protocole de Montréal relatif à des substances qui appauvrissent la couche d'ozone*, la quantité maximale disponible sera distribuée proportionnellement aux personnes ayant rapporté des activités conformément au paragraphe 10(4) du *Règlement sur les substances appauvrissant la couche d'ozone (1998)*. Ce qui est le cas en 2008.

Therefore, the baseline consumption allowance for Company Name in 2008 for each sector has been calculated to be as follows:

Ainsi l'allocation de consommation de base en 2008 pour Nom de compagnie pour chaque domaine autorisé a été calculée comme étant :

	2008 Allowance (in ODP*) Allocation 2008 (PACO*)
<b>For cooling, whether in refrigeration or air conditioning / Pour le refroidissement, soit la réfrigération soit la climatisation</b>	<b>942 kg</b>
<b>For use in any other application / Pour les autres utilisations</b>	...

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\* ODP means the ozone-depleting potential, set out in column 3 of item of Schedule 2 of the *Ozone-depleting Substances Regulations, 1998*

\* PACO signifie le potentiel d'appauvrissement de la couche d'ozone indiqué à la colonne 3 de l'annexe 2 du *Règlement sur les substances appauvrissant la couche d'ozone (1998)*

As a reminder, please note the following statements for future considerations:

- According to subsections 27 and 28 of the *Ozone-depleting Substances Regulations, 1998*, starting on or after January 1st, 2010, no person shall manufacture or import HCFC-141b, HCFC-142b or HCFC-22 and product that contains or is designed to contain those HCFCs. However, this does not apply in respect of the manufacture, use, sale, offering for sale or import of HCFC-141b, HCFC-142b or HCFC-22 for exportation or for use as a refrigerant in bulk.
- At the 19th Meeting of the Parties to the *Montreal Protocol on Substances that Deplete the Ozone Layer*, an historic agreement was reached for accelerating the phase-out of HCFCs. According to this agreement, in 2010 Canada's maximum consumption of HCFCs will be reduced to 25% of baseline.

If you have any questions concerning the *Ozone-depleting Substances Regulations, 1998*, please contact Mr. Patrice Doré at 819-994-0009.

Yours sincerely,

À titre de rappel, prière de prendre connaissance des renseignements suivants pour considération ultérieure :

- Conformément aux articles 27 et 28 du *Règlement sur les substances appauvrissant la couche d'ozone (1998)*, il sera interdit de fabriquer ou d'importer du HCFC-141b, du HCFC-142b ou du HCFC-22 ainsi que tout produit qui en contient ou est conçu pour en contenir à partir du 1<sup>er</sup> janvier 2010. Toutefois, cela ne s'applique pas à la fabrication, à l'utilisation, à la vente, à la mise en vente ou à l'importation de HCFC-141b, de HCFC-142b ou de HCFC-22 en vrac destinés à l'exportation ou à servir comme frigorigène.
- À la 19<sup>e</sup> réunion des Parties au *Protocole de Montréal relatif à des substances qui appauvrissent la couche d'ozone*, un accord historique concernant l'élimination accélérée des HCFC a été conclu. À partir de 2010, la consommation canadienne maximale de HCFC sera réduite à 25 % du niveau de base.

Si vous avez des questions sur le *Règlement sur les substances appauvrissant la couche d'ozone (1998)*, veuillez communiquer avec M. Patrice Doré au 819-994-0009.

Veillez agréer, Monsieur, mes sincères salutations.

Le directeur,

Director's Name and Signature

Director  
Chemicals Production Division  
Environment Canada  
On behalf of the Minister of the Environment

Division de la production des produits chimiques  
Environnement Canada  
Au nom du ministre de l'Environnement

Attachment / p.j

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**REFERENCES**

<p><b>ISSUING OFFICE –</b></p> <p>Other Government Department Programs Unit  Commercial Border Programs Division  Border Programs Directorate  Programs Branch</p>	<p><b>HEADQUARTERS FILE –</b></p> <p>68464</p>
<p><b>LEGISLATIVE REFERENCES –</b></p> <p><i>Canada Border Services Agency Act</i>, Subsections 5(1) and 5 (2)  <i>Customs Act</i>, Sections 12, 95, 99,101 and 107  <i>Canadian Environment Protection Act, 1999</i>  <i>Ozone Depleting Substances Regulations, 1998</i>, Subsection 17 (3)  <i>Reporting of Exported Goods Regulations</i></p>	<p><b>OTHER REFERENCES –</b></p> <p>D17-1-4, D17-1-21; D22-1-1</p>
<p><b>SUPERSEDED MEMORANDA “D” –</b></p> <p>D19-7-2, February 10, 2010</p>	

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