Memorandum D19-7-2 Locator Code: 814A

In Brief

Ottawa, April 16, 1997

SUBJECT

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

- 1. Memorandum D19-7-2 has been updated to reflect *the Ozone-depleting Substances Regulations and the Ozone-depleting Substances Products Regulations*. These regulations replace *the Ozone-depleting Substances Regulations No. 1* (Chlorofluorocarbon) and *the Ozone-depleting Substances Regulations No. 3* (Products). The regulations were amended in an effort to make the requirements for producing, importing, and exporting ozone-depleting substances easier to understand.
- 2. In addition, Appendices A, B, and C have been added to this Memorandum.

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

Revenue Canada assists Environment Canada in administering the *Canadian Environmental Protection Act, the Ozone-Depleting Substances Regulations* and *the Ozone-Depleting Substances Products Regulations* established under that Act. This Memorandum outlines the requirements concerning the importation and exportation of ozone-depleting substances and products under these regulations.

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GUIDELINES AND GENERAL INFORMATION

Definitions

- 1. The following definitions are to be used in the application of this Memorandum:
 - (a) "controlled substance" means a substance set out in column ll of an item of Schedule II of the Ozone-Depleting Substances Regulations, whether existing alone or in a mixture, and includes isomers of any such substance unless otherwise indicated (see the list of controlled substances in Appendix A);
 - (b) "Ozone-Depleting Substances Regulations" means Regulations established under the Canadian Environmental Protection Act respecting the manufacture, use, sell, offering for sale, import, or export of controlled substances;
 - (c) "Ozone-Depleting Substances Products Regulations" means Regulations established under the Canadian Environmental Protection Act respecting the manufacture, import, offering for sale, or sale of certain products made with or containing chlorofluorocarbons or bromofluorocarbons(halons);
 - (d) "Montreal Protocol" means the "Montreal Protocol on Substances that Deplete the Ozone Layer." This is an international treaty that came into force on January 1, 1989, and is designed to prevent global environmental and health problems by setting out a schedule for reducing consumption of chlorofluorocarbons, bromofluorocarbons, methyl chloroform, carbon tetrachloride, methyl bromide, and hydrochlorofluorocarbons;
 - (e) "Party" means a country that is a signatory to the Montreal Protocol (see the list of signatory countries in Appendix B);
 - (f) "foaming agent" means any chemical that is added to any plastic during the process of manufacturing plastic foam so that small gas cells are formed throughout their plastic;
 - (g) "plastic foam" means a plastic the weight per unit of volume of which is decreased substantially by the use of a foaming agent during the manufacturing process.
 - (h) "reclaimed" in respect of a controlled substance, means recovered, re-processed, and upgraded through processes, such as filtering, drying, distillation, and chemical treatment in order to restore the controlled substance to industry-accepted reuse standards.
 - (i) "recovered" in respect of a controlled substance, means:
 - (1) collected after it has been used, or
 - (2) collected from machinery, equipment, or a container during servicing, or before disposal of the machinery, equipment or container.
 - (j) "recycled" in respect of a controlled substance, means recovered, cleaned by a process such as filtering or drying, and reused, including reused to recharge equipment.

Maintenance of Records

2. Every importer and exporter of controlled substances is required to keep certain records and to report certain information to the Minister of the Environment. Importers and exporters should refer to the *Ozone-Depleting Substances Regulations* for the specific requirements. Revenue Canada does not maintain records on the importation and exportation of controlled substances.

Prohibited Importations of Ozone-Depleting Substances

- 3. The *Ozone-Depleting Substances Regulations* prohibit the importation of controlled substances, other than:
 - (a) by an importer authorized in accordance with these Regulations; and
 - (b) from a party to the Montreal Protocol.
- 4. Common trade names for controlled substances such as chlorofluorocarbons (CFCs) include: Freon, Genetron, Genesolv, Isotron, Arcton, Frigen, Sercon, and Racon. The trade name is usually followed by the number 11, 12, 13, 113, 114, or 115 which identifies the type of CFC. Common refrigerant mixtures of CFCs are identified by the trade name followed by the numbers 500, 501 502, 503, and 504. Mixtures of CFCs with other chemicals are often identified by the trade name followed by certain letters and numbers such as Freon TF or Genesolv DE-35. (See Appendix C for additional scientific and trade names for controlled substances.)
- 5. The Ozone-Depleting Substances Products Regulations prohibit the importation of:
 - (a) 10 kg or less of any CFC contained in a pressurized container;
 - (b) any product in a pressurized container that contains 10 kg or less of any CFC;
 - (c) any packaging material or container for food or beverages that is made of plastic foam in which any CFC has been used as a foaming agent; or
 - (d) any of the following products that contain any chlorofluorcarbon or bromofluorcarbon from a place outside a party to the Montreal Protocol:
 - (1) mobile air-conditioning units, including units installed in vehicles or other means of transport;
 - (2) domestic and commercial refrigeration, air-conditioning and heat pump equipment;
 - (3) fire extinguishers;
 - (4) insulation boards and pipe covers;
 - (5) prepolymers, i.e., rubiflex resin, daltolac, instapak.
- 6. Examples of products which are subject to the *Ozone-Depleting Substances Products Regulations* are: small containers of refrigerant for servicing vehicle air conditioners; signal horns; dust-off sprays; cooling sprays containing any regulated CFC; mold release agents; cleaning solvents for electrical or electronic equipment; protective sprays for photographs; and lubricants in mining operations. For further information on products which may contain CFCs in contravention of the regulations, please refer to Appendix D to this Memorandum.
- 7. Non-commercial importations are those that are for the personal use and consumption of the importer. When these importations are controlled substances and products made with or containing CFCs, they are subject to the *Ozone-Depleting Substances Regulations* and the *Ozone-Depleting Substances Products Regulations*. As such, they will be detained by Revenue Canada and the nearest Environment Canada regional office outlined in Appendix E will be contacted.

Non-Prohibited Importations of Ozone-Depleting Products

8. Subsection 4(3) of the *Ozone-Depleting Substances Products Regulations* provides that a person may import any product in a pressurized container that contains 10 kg or less of any CFC where the product is an animal or human health care product including any bronchial dilator, inhalable steroid, topical anaesthetic, and veterinary powder wound spray.

- 9. Certain types of CFCs are recognized as safe for use in pharmaceutical products. They are generally used as propellants in aerosol sprays, inhalation medicines, and foams. The CFCs are non-toxic and inert, and are therefore essential for use in health care products until suitable alternatives are approved for use. Generally, health care products can be identified by the DIN (Drug Identification Number) indicated on the container. Beauty care products such as hairspray and deodorant are not eligible for this exemption.
- 10. Subsection 4(2)(b) of the *Ozone-Depleting Substances Products Regulations* provides that a person may import 10 kg or less of a CFC contained in a pressurized container where the CFC is:
 - (a) in any of the following azeotropic mixtures:
 - (1) refrigerant 500
 - (2) refrigerant 501
 - (3) refrigerant 502
 - (4) refrigerant 503; or
 - (5) refrigerant 504
 - (b) a recovered CFC that is sold to be recycled or reclaimed and that will be used as refrigerant.
- 11. Subsection 4(4) of the *Ozone-Depleting Substances Products Regulations* provides that a person may import:
 - (a) 10 kg or less of any CFC contained in a pressurized container, or
 - (b) any product in a pressurized container that contains 10 kg or less of any CFC

where the CFC or product is contained in a pressurized container of 3 litres or less and is to be used for laboratory or analytical purposes.

12. Subsection 6(2) of the *Ozone-Depleting Substances Products Regulations* provides that a person may import a product outlined in paragraph 5(d) of this Memorandum from a party outside the Montreal Protocol, provided the product is intended for the person's own use and is transported in a consignment of personal or household effects.

Responsibilities of Environment Canada and Revenue Canada in the Importation of Ozone-Depleting Substances and Products

- 13. Environment Canada authorizes importers to import controlled substances and products outlined in paragraphs 10 and 11. Revenue Canada will request the written authorization prior to releasing the goods and will also ensure that:
 - (a) the authorization is addressed to a company;
 - (b) the authorization is signed by the Director, Commercial Chemicals Evaluation Branch, on behalf of the Minister of the Environment;
 - (c) an effective date is shown on the authorization;
 - (d) an authorization/allowance is granted for certain ozone depleting substances; and
 - (e) the shipment arrives within the effective date indicated in the written authorization.
- 14. If a customs inspector suspects a shipment is in violation of the *Ozone-Depleting Substances Regulations* or *Ozone-Depleting Substances Products Regulations*, the shipment will be detained and the nearest Environment Canada regional office outlined in Appendix E will be contacted immediately. A *Canadian Environmental Protection Act* (CEPA) inspector will verbally advise the customs inspector of the appropriate action to be taken, and follow-up immediately with written confirmation.
- 15. Environment Canada will provide the Revenue Canada office with the action to be taken on detained shipments within two hours of being notified of a detained shipment. The Federal-Provincial Portfolio of

the Partnerships and Strategic Planning Division in Ottawa is to be advised of situations where a CEPA inspector fails to provide the Revenue Canada office with the appropriate action to be taken. The address and telephone number for the Federal-Provincial Portfolio are contained in paragraph 24.

- 16. The customs inspector will record the name, title, and telephone number of that CEPA inspector who authorized the release of a detained shipment on the Revenue Canada office copy of the accounting document and will request written confirmation by mail or facsimile from Environment Canada.
- 17. If Environment Canada determines that a shipment must be detained for a lengthy period, officials of that department will have the shipment removed from Revenue Canada's premises within 24 hours of the time of notification, or at another time agreed to by both departments.
- 18. Environment Canada will be responsible for the disposal of shipments detained on its behalf by Revenue Canada.

Responsibilities of Environment Canada and Revenue Canada in the Exportation of Ozone-Depleting Substances and Products

- 19. The exportation of controlled substances is prohibited, unless under authority of a permit issued by the Minister of the Environment. Products made with or containing CFCs or bromofluorcarbons can be exported.
- 20. Environment Canada is responsible for issuing permits for exporting controlled substances and any questions should be referred to the nearest Environment Canada regional office or to the Commercial Chemicals Evaluation Branch of Environment Canada indicated in paragraph 23 of this Memorandum.

Penalty Information

- 21. The *Canadian Environmental Protection Act* provides penalties for failure to comply with that legislation. 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.
- 22. 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*.

Additional Information

- 23. Addresses and telephone numbers for the regional offices of Environment Canada can be found in Appendix E.
- 24. Questions concerning Revenue Canada's administration of this program should be directed to:

Admissibility Programs Division

Operational Policy and Coordination Directorate

Customs Branch

Canada Customs and Revenue Agency

Telephone: (613) 954-7209 Facsimile: (613) 946-1520

APPENDIX A

(g)

(h)

(i)

(j)

LIST OF CONTROLLED SUBSTANCES

Tetrachloromethan	ne (carbon tetrachloride)	
1,1,1-trichloroetha	ne (methyl chloroform), not including 1,1, 2-trichloroe	thane
Trichlorofluorome	thane	CFC-11
Dichlorodifluorom	ethane	CFC-12
Trichlorotrifluoroe	thane	CFC-113
Dichlorotetrafluoro	oethane	CFC-114
Chloropentafluoro	ethane	CFC-115
Chlorotrifluoromet	thane	CFC-13
Pentachlorofluoroe	ethane	CFC-111
Tetrachlorodifluor	oethane	CFC-112
Heptachlorofluoro	propane	CFC-211
Hexachlorodifluor	opropane	CFC-212
Pentachlorotrifluoi	ropropane	CFC-213
Tetrachlorotetraflu	oropropane	CFC-214
Trichloropentafluo	propropane	CFC-215
Dichlorohexafluor	opropane	CFC-216
Chloroheptafluoro	propane	CFC-217
Bromotrifluoromet	thane	Halon-1301
Bromochlorodifluo	promethane	Halon-1211
Dibromotetrafluor	oethane	Halon-2402
Methyl Bromide		
Hydrochlorofluoro		
(a)	Dichlorofluoromethane	HCFC-21
<i>(b)</i>	Chlorodifluoromethane	HCFC-22
<i>(c)</i>	Chlorofluoromethane	HCFC-31
(d)	Tetrachlorofluoroethane	HCFC-121
(e)	Trichlorodifluoroethane	HCFC-122
<i>(f)</i>	2,2-dichloro-1,1,1-trifluoroethane	HCFC-123

1,2-dichloro-1,1,2-trifluoroethane

1,1-dichloro-1,2,2-trifluoroethane

2-chloro-1,1,1,2-tetrafluoroethane

1-chloro-1,1,2,2-tetrafluoroethane

HCFC-123a

HCFC-123b

HCFC-124

HCFC-124a

(k)	Trichlorofluoroethane	HCFC-131
(1)	Dichlorodifluoroethane	HCFC-132
(m)	Chlorotrifluoroethane	HCFC-133
(n)	Dichlorofluoroethane	HCFC-141
(0)	1,1-dichloro-1-fluoroethane	HCFC-141b
<i>(p)</i>	Chlorodifluoroethane	HCFC-142
(q)	1-chloro-1,1-difluoroethane	HCFC-142b
(r)	Chlorofluoroethane	HCFC-151
(s)	Hexachlorofluoropropane	HCFC-221
<i>(t)</i>	Pentachloro-difluoropropane	HCFC-222
<i>(u)</i>	Tetrachloro-trifluoropropane	HCFC-223
(v)	Trichlorotetra-fluoropropane	HCFC-224
(w)	Dichloropenta-fluoropropane	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 (English Version)

PARTIES TO THE MONTREAL PROTOCOL

Algeria Greece Niger
Antigua and Barbuda Grenada Nigeria
Argentina Guatemala Norway
Australia Guinea Pakistan
Austria Guyana Panama

Bahamas Honduras Papua New Guinea

Bahrain Hungary Paraguay Bangledesh Iceland Peru Barbados India Philippines Poland Belarus Indonesia Iran, Islamic Republic of Belgium Portugal Benin Ireland Romania

Bolivia Israel Russian Federation Bosnia and Herzegovina Italy Saint Kitts and Nevis

Botswana Jamaica Saint Lucia Brazil Japan Samoa Saudia Arabia Brunei Darussalam Jordan Bulgaria Kenya Senegal Sevchelles Burkina Faso Kiribati Korea, Democratic People's Singapore Cameroon Republic of Slovakia Canada Central African Republic Korea, Republic of Slovenia

Chad Kuwait Soloman Islands Chile Latvia South Africa China Lebanon Spain Colombia Sri Lanka Lesotho Libyan Arab Jamahiriya Comoros Sudan Congo Liechtenstein Swaziland Costa Rica Lithuana Sweden Cote d'Ivoire Luxembourg Switzerland

Croatia Malawi Syrian Arab Republic
Cuba Malaysia Syrian Arab Republic of

Cyprus Maldives Thailand

Czech Republic Mali The former Yugoslav

Denmark Malta Republic of Dominica Marshall Islands Macedonia Dominican Republic Mauritania Togo

Ecuador Mauritius Trinidad and Tobago

Mexico Egypt Tunisia El Salvador Turkev Monaco Turkmenistan Ethiopia Morocco Fiji Mozambique Tuvalu Finland Myanmar Uganda Namibia France Ukraine

Gabon Nepal United Arab Emirates
Gambia Netherlands United Kingdom

Germany New Zealand USA
Ghana Nicaragua Uruguay

Uzbekistan Vanuatu Venezuela Viet Nam Yugoslavia Zaire Zambia Zimbabwe

APPENDIX C

SCIENTIFIC AND TRADE NAMES OF CONTROLLED SUBSTANCES

Controlled Substances	Chemical Names	Trade Names
Methyl chloroform C ₂ H ₃ Cl ₃ /	1,1,1-trichloroethane, alphatrichloromethane, trichloro-1,1,1 ethane, chlorothene, methyltrichloromethane, trichloroethane, methyl chloroform	1,1,1-TCE 1,1,1-TCE 3190 Taperaser Thinner (1, 2, 3, and 4) 3190 Thinner 617X2 A13-02061 Aerosol Liquid Buffer Aerothene MM Aerothene TT Alpha-T Ardrox 8PR551 Penetrant Remover and Cleaner Asahitriethane B-70 Nettoyeur dégraisseur Baltana Belzona Molecular N.F. Cleaner/Degreaser C078 Helmitin Solvant Carter's Instant Type Cleaner Caswell no 875 CF2 CFC140a CG Triethane Chloratex nettoyeur 708 Chlorethene B70 Chlorothane-NU, Chlorethene Chlorothene

Methyl chloroform

 $C_2H_3Cl_3 - con.$

Chemical Names

Trade Names

Elecsolv

EPA Pesticide Chemical Code

Ethane

F140a

Fabrisol 55

Flex 80 Cleaner

Fluorocarbon 140a

Freon 140a

Genklené

H&M Clean

Helmitin Solvant C678

ICI-CF2

K1144 Ultra Sol

K120 N.F.S. Solvant

inflammable

K120 Solvent

K120

K7 FC-700 nettoyeur pour tissus

Keykleen 503

Kodak Movie Film Cleaner

Konden Triéthane

Laser Dry Spot Liquid Buffer

Loctite Safety Solvent

Loctite 75559

MCF

Methyl Chloroform Technical

Molecular N.F.

Cleaner/Degreaser

MS-170 1,1,1-Trichloroethane

Solvent

NCI-C04626

Nettoie-caractères inst. C80820

Nettoie-touches de dactylo

Carters cat

C90820

Nettoyant B-70

Nettoyeur contact # 1328 Krylon

Nettoyeur B70

Nettoyeur H et M

Nettoyeur à tissus

P128 Laser

Picrin

Propaklone

R140a

RCRA Waste Number 226

Roberts 931 Seaming Adhesive

Solvent

Chemical Names

Trade Names

Methyl chloroform Safety Solvent 75563 $C_2H_3Cl_3 - con$. Safety Solvent 755-71

Safety Solvent 755-71 Safety Solvent (Aerosol) 75-563

Safety Solvent # 75559

Safety Solvent (Aerosol) 755-59

Sanfax Pick-One

Shine Pearl

Solvant 111

Solvant Dielectrique

Solvent sécuritaire Electosolv

Solvethane

Spotcheck Cleaner SCK-NF

(Liquide)

Spotcheck Cleaner Remover

Formula B SKC-NF

Spotchek Cleaner/Remover

(SKF-NF)

Stanchem Tri-Ethane 3235

Stripalane 416 Class 61

Stripalene 416

Strobane

Super 111

Super Spray Cleaner Crystal 180

Tafclean

TCEA

Thinner 111

Three One

Toyoclean

TRI

Tri-Ethane

Triethane 3235

Triethane P.P.G.

Triéthane

TUX-7230 1,1,1-Trichlorethane

Ultra Sol K1144

UN2831

Unican DME

Vol

Vol 8748

Vythene

Vythene Safety Solvant

Wax solvent 83

Chemical Names

Trade Names

Carbon Tetrachloride Ccl₄

Tetrachloromethane, perchloromethane, methane tetrachloro, carbon tetrachloride Benzinoform

Carbon Tetrachloride Petro-

Canada

Carbon Tetrachloride Fisher

Carbon Tet

Carbon Tetrachloride Vulcan

Carbona

CDX-1180 Tetrachlorure de

Carbone CFC10

Chloride Uhlicity Chlorure de Carbone

Didakol Ent 4,705 Ent 27164 F(-)10 Fasciolin Flukoids Fréon 10 Halon 1040 Halon 1.040 Halon 1.040

Methane Tetrachloride

Necatorina Necatorine R(-)10 Sérétine

Tetrachlorure de carbone ACS Tetrachlorure de carbon

AC-2060T Tétrasol UN1846 Univerm

Vermoestricid (1, 2, 3, and 4)

Trichlorofluoromethane CCl₃F

CFC-11, Fluorochloroform, trichloromethylfluoride, trichloromonofluoromethane, trichlorofluorocarbon /

Arcton 11 Freon 11 Fluorocarbon 11

F11 FC11 FKW 11 Frigen 11 Frigen 11 Halocarbon 11 Halon 11 Propellant 11 R11 Refrigerant 11 Ucon 11

Controlled Substances Chemical Names Trade Names Trichlorofluoromethane Algofrene type 1 CCl_3F – con. Arcton 9 Asahifron 11 CFC(-)11 Daiflon S1 Daiflon 11 Electro-CF Eskimon 11 Fréon MF Fréon 11B Frigen 11 Frigen 11A Frigen s 11 Fron 11 Gaz Fréon 11x50 Gaz Fréon 11x50NR Genetron 11 Genetron 11SBA Halocarbure 11 Isceon 131 Isotron 11 Kaltron 11 Khladon Khladon 11 Ledon 11 Niax-11 Ucon T1 (1, 2, and 3) Dichlorodifluoromethane CCl₂F₂ CFC-12, Carbon dichloride Accuduster TX110 difluoride, chlorofluorocarbon Accuduster TX1210 12, difluorodichloromethane, Aerosal Dust Remover methane dichlorodifluoro Algofrene Type 2 Arcton 12 Arcton 6 Artong Benetron 12 Blow-Off # 1668-15S CF12 CFC-12 Chlorofluorocarbon 12 Circuit Freeze Circuit Refrigerant PH100-20 Circuit Refrigerant PH100-14

Cryoquick

Dust Remover ABSCO Dust Eliminator Optex

Controlled SubstancesDichlorodifluoromethane

 CCl_2F_2 – con.

Chemical Names

Trade Names

Electro-CF 12

Enviro-tech 1668

Eskimon 12

Extra Dry Super Mist 10-702

F12

Fast Freeze

FC12

FCC-12

Fifty Below (model 9108) aerosol

FKW 12

Forane 12

Freez-it Anti-Stat, Fluorcarbon

12

Freeze-It

Fréon R-12

Freon-12

Frigen 12

Frigon 12

Fron 12

GC 10-702

Genetron 12

Halocarbon 12

Halocarbura 12

Halon 122.0

Halon 122.

Isceon 122

Isotron 12

Isotron 2

K12

Kaiser Chemical 12

Khladon 12

Ledon 12

Microduster TX600

Microduster TX104a

Microduster TX104

Minus 62 Instant Chiller # 1669-

16S

MS-240 Quick-Freeze

Niax Blowing Agent 12

Niax 12

Nicer'n ice 99900403

Precision Duster

Precision Duster Non-Liquid

Cleaner 1668

Propellant 12

Propulseur 12

Quick Freeze Shandon

Controlled Substances Chemical Names Trade Names Dichlorodifluoromethane R12 Refrigerant 12 CCl_2F_2 – con. Refrigerant/Aerosol MS-240 Rolyen Cold Spray Super Freeze Mist 10-8668 Super Frost Aid 1550 Super Freeze Mist 10-8668-24 Techclean Precision Duster 1668-Techclean Precision Duster 1668-3S Technigraphic Dust Ucon 12 Un1028 Trichlorotrifluoromethane CFC-113, AC-9400 CCl₂F-CClF₂ chlorotrifluoromethane, Aerosol R-O monochlorotrifluoromethane Aerosol Magnetic Head Cleaner HP PN5080-3605 Arcton 113 Arcton 63 Arkalone P Arklone P C.I.L. Asahifron 113 CFC(-)113 CG Triflon Chesterton Contact Cleaner Chlorofluorocarbon C-113 Daiflon S3 Daiflon 113 Delifrane Diaflon S3 Electro Contact Cleaner F113 FC113 Fion Showa Solvent Flugen Fluorisol Fluorocarbon(-)113 Forane 113 Freon PCA Freon 13 Freon TF Freon 113 Freon TF Solvent Fréon 113

Fridohne Frigen 113TR-A

Chemical Names

Trade Names

 $\label{eq:controller} Trichlorotrifluoromethane $CCl_2F\text{-}CClF_2-con.$$

Frigen 113 Frigen 113A Frigen 113TR-N Fron 113

Fron 113 Fronsolve Fronsolve 113 Genesolve

Genetron D Solvent Genetron 226 Genetron 113 Halocarbon 113 Halocarbure 113 Halon 2.330 Halon 233

HP PN 5080-3605

Instant VTR/VCR Cleaner 1683 Instant FD Cleaner 1638-1G

Isceon 113 Kaltron Khladon 113 Ledon 113 Magidry

MS-180 NR.226 Electro Contact

Cleaner Nanofron

Nettoyeur à contact NR226

Chesterton # 82501 P 113 R-113

Refrigerant 113

TCTFE

TF Non Aerosol Cleaner

TTE

TUX-7250 1, 1,2-Trichlorotri-

fluoroethane Ucon 113

Dichlorotetrafluoroethane ClCF₂-CClF₂

CFC-114, Symdichlorotetrafluoroethane, tetrafluorodichloroethane

Arcton 33 Arcton 114 CFC114 Cryofluorane Cryofluroran F-114 FC-114 FKM 114

Controlled Substances Chemical Names Trade Names Dichlorotetrafluoroethane FKW 114 $ClCF_2$ - $CClF_2$ – con. Fluorane 114 Fluorocarbon 114 Forane 114 Freon 114 Frigen 114 Frigiderm Fron 114 Genetron 114 Genetron 316 Halocarbon 114 Halocarbure 114 Halon 242 Halon 2.420 Isotron 114 Ledon 114 Propellant 114 Propulseur 114 R(-)114 R-14 Refrigerant 114 Ucon Halocarbon 114 (1 and 2) Ucon 114 Chloropentafluoroethane CFC-115, Arcton 115 monochloropentafluroethane, CClF₂-CF₃ CFC115 pentafluoroethylchloride, F-115 perfluoroethyl chloride FC115 FKW 115 Flurorocarbon 115 Forane 115 Freon 115 Genetron 115 Halocarbon 115 Halocarbure 115 Halon 251 Halon 2.510 Propellant 115 Propulseur 115 R-115 Refrigerant 115 (1 and 2)

Controlled Substances	Chemical Names	Trade Names
$Bromochlorodifluromethane \\ CF_2BrCl \ /$	Halon 1211, Chlorobromodifluromethane, Chlorodifluorobromomethane, Difluorochlorobromomethane	BCF Fire Extinguisher Halon 1211 CFC-12B1 Chlorofluorocarbure 12B1 F-12B1 Fire Extinguisher Flugex 12B1 Fluorocarbone 1211 Fluorocarbon 12B1 Freon 12B1 Halocarbon 12B1 Halon 1.211 Halon 1.11 Halon 1.122 UN 1974 (1 and 2)
Bromotrifluoromethane CBrF3	Halon 1301, Bromofluoroform, Carbon monobromide trifluroride, Trifluoromethyl bromide	CFC-13B1 Daiflon 13B1 F-3B1 FC13B1 FKWR 13B1 Flugex 13B1 Fluorocarbon 1301 Fluorocarbon 13B1 Freon 13B1 Halocarbon 13B1 Halocarbure 13B1 Halon 1301 Halon 1.301 Khladon 13B1 R-13B1 Refrigerant 13B1 UN1009 (1 and 2)
Methyl bromide	methylbromide, bromomethane, methane, bromo, methyl bromide, methyl monobromide, monobromomethane	CFC(-)40B Embafume F(-)40B Fluorocarbon(-)40B Freon 40B Halon 1.001 Halon(-)1001 Halon # 1001 R(-)40B UN1062, (1, 2, 3)

Controlled Substances	Chemical Names	Trade Names
Dibromotetrafluoroethane CF ₂ Br-Cf ₂ Br	Dibromo-tetrafluoroethane, dibromotetrafluoroethane, 1,2-dibromotetrafluoroethane, Sym-dibromotetrafluoroethane	Arcton 114B2 CFC-114B2 Daiflon 114B2 F-114B2 FC-114B2 Fluobrene Fluorocarbon 114B2 Freon 114B2 Halon(-)2402 Khladon 114B2 R-114B2 (1 and 2)

There are also azeotropic mixtures that contain CFCs. These azeotropic mixtures, with the exception of azeotropic mixture 503, are exempt from the *Ozone-depleting Substances Products Regulations* (meaning that pressurized containers containing these mixtures are not regulated by the *Ozone-Depleting Substances Products Regulations*), but they are regulated by the *Ozone-Depleting Substances Regulations* (meaning that an importer must have an authorization to import

Refrigerant 500	73.8% Dichlorodifluoromethane (CFC-12) 26.2% 1,1-difluoroethane (HFC-152a)	Azeotrope 500 CFC-500 F-500 Fluorocarbon 500 Freon 500 Frigorigène 500 Genetron 500 azeotrope R500 Refrigerant 500 (1, 2, 3, 4)
Refrigerant 501	75% chlorofluoromethane (HCFC-22) 25% dichlorodifluoromethane (CFC-12)	R501
Refrigerant 502	48.8% chlorodifluoromethane (HCFC-22) 51.2% 1-chloro-1,1,2,2,2-pentafluroethane (CFC-115)	Azeotrope 502 CFC-502 F-502 Fluorocarbon 502 Freon 502 Frigorigène 502 Genetron 502 Genetron 502 azeotrope R-502 Refrigerant 502 (1, 2, 3, 4)

Refrigerant 503	60% chlorotrifluoromethane (CFC-13) 40% trifluoro methane	R503
Refrigerant 504	52% chloropentafluroroethane (CFC-115) 48% difluoromethane (HFC-32)	R504

APPENDIX D

PRODUCTS WHICH MAY CONTAIN CHLOROFLUOROCARBONS IN CONTRAVENTION OF THE OZONE-DEPLETING SUBSTANCES PRODUCTS REGULATIONS

Automotive Air Conditioning Refill Kits

Small containers of refrigerants used to recharge automobile air-conditioning units contain about 340 grams of CFC-12. They are sold to auto dealers, repair shops and, through retail outlets, to the public.

Signal Horns

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.

Dust-Off Sprays

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. The product is sold in standard aerosol spray cans. Dust-off sprays have many uses, and are sold through scientific, laboratory, and medical supply companies; art supply stores; camera, photographic, and optical equipment supply companies; electrical and electronic supply companies; hobby shops; audio and video retail and service shops; and computer stores.

Cooling Sprays

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.

Aerosol Spray Cans

Some products in an aerosol spray can, such as deodorants, hair sprays, and antiperspirants, may use CFCs as a propellant or as a slurrying agent.

Mold Release Agents

Mold release agents are lubricants which 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.

Cleaning Solvents for Electrical or Electronic Equipment

CFCs are used extensively in the electronics industry as a cleaning solvent. It is sometimes packaged in pressurized aerosol spray cans and sold as a cleaner for electrical and electronic equipment, audio and visual service, and optical devices.

Protective Sprays for Photographs

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. A CFC propellant is considered essential because it provides a very fine and uniform aerosol and because it does not react with the photographic emulsion.

Lubricants in Mining Operations

Lubricants have been developed to safeguard open gears, cables, and wire ropes on large machinery for use in mining operations. CFC propellants are essential in this application because they are non-flammable and the CFCs are generally recognized to be non-toxic. In the interests of occupational safety, lubricants may be imported for use in either open pit or underground mining operations.

Note: Products using HCFC-22, chlorodifluoromethane, are not regulated. The contents of the product should be listed on the label or on a Material Safety Data Sheet, which may accompany the shipment.

APPENDIX E

ENVIRONMENT CANADA REGIONAL OFFICES

Atlantic Region (except Newfoundland)

(Nova Scotia, New Brunswick, Prince Edward Island)

Environmental Protection Atlantic Region 16th floor Queen Square 45 Alderney Drive Dartmouth NS B2Y 2N6

Telephone: (902) 426-1925 (during working hours)

(902) 426-3593 (during working hours)

Facsimile: (902) 426-9709

Newfoundland

Environmental Protection P.O. Box 5037 St. John's NF A1C 5V3

Telephone: (709) 772-2065 Facsimile: (709) 772-5097

Quebec Region

Environmental Protection 1179 de Bleury Street Montréal QC H3B 3H9

Telephone: (514) 283-4670 (during working hours)

Facsimile: (514) 283-4423

Ontario Region

Environmental Contaminants and Nuclear Programs Division Environmental Protection Ontario Region 4905 Dufferin Street Downsview ON M5H 5T4

Facsimile: (416) 739-4405

Prairie and Northern Region

(Manitoba, Saskatchewan, Alberta, Northwest Territories)

Alberta Division

Environmental Protection Room 200 4999-98th Avenue Edmonton AB T6B 2X3

Facsimile: (403) 495-4099

Saskatchewan Division

Environmental Protection Room 300 Park Plaza 2365 Albert Street Regina SK S4P 4K1

Facsimile: (306) 780-6466

Manitoba Division

Environmental Protection 5th floor Federal Building 269 Main Street Winnipeg MB R3C 1B2

Facsimile: (204) 983-0960

Northern Division

Environmental Protection Suite 301, 5204-50th Avenue Yellowknife NT X1A 1E2

Telephone: (403) 920-6051 (during working hours)

Fascimile: (403) 873-8185

Pacific and Yukon Region

British Columbia

Environmental Protection 224 West Esplanade North Vancouver BC V7M 3H7 Facsimile: (604) 666-1140

Yukon District Office

Environmental Protection 100 Hamilton Boulevard Whitehorse YT Y1A 5L7

Facsimile: (403) 667-7962

REFERENCES

ISSUING OFFICE

Transportation Division

LEGISLATIVE REFERENCES

Canadian Environmental Protection Act Ozone-Depleting Substances Regulations Ozone-Depleting Substances Products Regulations

HEADQUARTERS FILE

7620-12

SUPERSEDED MEMORANDA "D"

D19-7-2, May 22, 1992

OTHER REFERENCES

N/A