

CHAPTER 2401-81 OZONE LAYER PROTECTION REGULATIONS

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GENERAL PROVISIONS

2401-81-01 Purpose

These Ozone Layer Protection Regulations ("Regulations") are to govern the import, export, sale, and manufacture of ozone depleting substances and products containing them in the Republic of Palau, in accordance with the Republic's commitments under the Montreal Protocol on Substances that Deplete the Ozone Layer and the Vienna Convention for the Protection of the Ozone Layer.

2401-81-02 Authority and Effective Date

These Regulations are promulgated by the Republic of Palau Environmental Quality Protection Board (the "EQPB") pursuant to the authority granted it by the Republic of Palau Environmental Quality Protection Act, RPPL 1-58 (24 PNC § 100, *et seq.*). These regulations shall take effect thirty (30) days after approval by the President of the Republic of Palau, in accordance with 6 PNC § 127.

2401-81-03 Definitions

(A) The following words and terms, when used in these Regulations, shall have the following meanings unless the context clearly indicates otherwise:

- (1) "Act" means the Republic of Palau Environmental Quality Protection Act;
- (2) "Aerosol spray" and "aerosol" means any substance packed under pressure in a container with

- a device for releasing it directly into the atmosphere as a foam or fine spray, or solid or liquid stream;
- (3) "Board" or "EQPB" means the Republic of Palau Environmental Quality Protection Board or its authorized representative;
- (4) "Bulk" in reference to any controlled substance, a. means any controlled substance whether alone or in a mixture that is in a non-processed form; b. includes any controlled substance that is acquired in a non-processed form, whether alone or in a mixture, that has been recovered, cleaned (by filtering or drying) or reclaimed (by filtering, drying, distillation or chemical treatment); c. includes any controlled substance that is in a container for the purposes of storage or transport of the substance, but d. excludes any controlled substance that is in a manufactured product or use system;
- (5) "Carbon tetrachloride" means the substance specified in Part IV of the Appendix;
- (6) "CFC" means any substance specified in Part I and Part III of the Appendix;
- (7) "Complying country" means a country that is either a. a party to the Montreal Protocol; or b. a country that has been determined, in accordance with the Montreal Protocol, to be a country that is in full compliance with Articles 2, 2A to 2E, and Article 4 of the Protocol;
- (8) "Controlled substance" means any substance whether pure or in a mixture and includes the isomers of any such substance listed in the Appendix;
- (9) "Consumption" means the amount of each controlled substance that is produced in Palau, plus the amount imported, minus the amount exported to Parties to the Montreal Protocol;
- (10) "Export" or "Exportation" means to take or cause to be taken out of the Republic;
- (11) "Goods" means, unless the context requires otherwise, any product made with or containing any controlled substance, but does not include any bulk controlled substance.
- (12) "Halon" means any substance specified in Part II of the Appendix;
- (13) "HBFC" means any substance specified in Part VI of the Appendix;
- (14) "HCFC" means any substance specified in Part VII of the Appendix;
- (15) "Import" or "Importation" means to bring or cause to be brought into the Republic;
- (16) "Methyl bromide" means the substance specified in Part VIII of the Appendix;
- (17) "Methyl chloroform" means the substance specified in Part V of the Appendix;
- (18) "Montreal Protocol" and "the Protocol" means the Montreal Protocol on Substances that Deplete the Ozone Layer, a protocol to the Vienna Convention for the Protection of the Ozone Layer, and includes any amendments to the Protocol, or adjustments or substitutions adopted thereto to which the Republic of Palau is or will become bound;

(19) "Officer" means a designated employee of the EQPB;

(20) "Ozone depleting potential" or "ODP" means the steady-state ozone reduction for each unit mass of gas emitted into the atmosphere relative to that for a unit mass emission of CFC-11, as listed in the relevant Annexes to the Protocol and as specified in the Appendix;

(21) "Party" or "Parties" unless otherwise defined in text, means States or regional economic integration organizations who have ratified, approved, accepted, or acceded to the United Nations Vienna Convention for the Protection of the Ozone Layer and any protocol or amendments to any protocol thereto;

(22) "Person" means the Republic of Palau, a state, a political subdivision, a public or private institution, corporation, partnership, joint venture, association, firm, or company organized or existing under the laws of the Republic or any state or country, a lessee or other occupant or property, or an individual, singly or as a group;

(23) "Plastic foam" means any plastics in cellular mass which are formed with the use of any gas or volatile liquid introduced into liquid plastic to make bubbles;

(24) "Pre-shipment applications" mean any treatments applied directly preceding and in relation to export, to meet the phytosanitary or sanitary requirements of the importing country, or the existing phytosanitary or sanitary requirements of the exporting country;

(25) "President" means the President of the Republic of Palau;

(26) "Quarantine applications" mean any treatments to prevent the introduction, establishment or spread of quarantine pests (including diseases), or to ensure their official control;

(27) "Sale" means every method of disposition for valuable consideration, including barter, and includes a. the disposition to an agent for sale on consignment; b. offering for sale or attempting to sell, or receiving or having in possession for sale, or exposing for sale, or sending or delivering for sale, or causing or permitting any of these things to be done; or c. disposal by way of lottery, raffle or game of chance; and

(28) "Solvent" means any aqueous or organic product designed to clean a component or assembly by dissolving the contaminants present on its surface;

(29) "Use System" means any container, vessel or piece of equipment containing a controlled substance whereby the mere dispensing of the product from the container, vessel or piece of equipment constitutes the intended use of the substance;

(30) "Vienna Convention" means the Vienna Convention for the Protection of the Ozone Layer, and includes any amendments to the Vienna Convention, or adjustments or substitutions adopted thereto to which the Republic of Palau is or will become bound.

(B) Words used in these Regulations shall have the same meaning as is given to them in the Vienna Convention or the Montreal Protocol, unless a contrary intention appears.

PROHIBITIONS RELATING TO CONTROLLED SUBSTANCES

2401-04 Prohibitions on Importation of Bulk Controlled Substances

(A) The following bulk controlled substances cannot be imported into the Republic under any circumstances:

(1) any bulk CFC specified in Part III of the Appendix, or

(2) any bulk HBFCs specified in Part VI of the Appendix;

(B) The following bulk controlled substances cannot be imported into the Republic under any circumstances except pursuant to a permit:

(1) any bulk CFCs, halons, carbon tetrachloride and methyl chloroform, as specified in Parts I, II, IV, and V of the Appendix;

(2) any bulk methyl bromide, as specified in Part VII of the Appendix; and

(3) any bulk hydrochlorofluorocarbons, as specified in Part VIII of the Appendix, whether alone or in a mixture.

2401-81-05 Prohibitions on the Importation of Certain Goods Containing Controlled Substances

(A) Any dry-cleaning machine that contains or is designed to use any controlled substance as a solvent cannot be imported into the Republic under any circumstances.

(B) Any aerosol or fire extinguisher that contains any controlled substance cannot be imported into the Republic except where its use is necessary for human health as determined by the Board and pursuant to a permit.

(C) The following goods containing controlled substances cannot be imported under any circumstance except pursuant to a permit:

(1) Any aerosol spray containing any controlled substance other than methyl bromide;

(2) Any fire extinguisher that contains any controlled substance; and

(3) any dehumidifiers, refrigerators, freezers, air-conditioners, supermarket display cases, heat pumps and water coolers that contains any CFC listed in the Appendix,

(4) any air-conditioning or refrigeration units whether fitted to a vehicle or as mechanical components intended for use in or on a vehicle and which contain CFCs at the time they are imported into the Republic.

(D) The following goods if they contain any controlled substance (other than HCFC or methyl bromide) cannot be imported under any circumstance from a non-complying country:

(1) Automobile and truck air conditioning units (whether incorporated in vehicles or not);

- (2) Refrigerators;
- (3) Freezers;
- (4) Dehumidifiers and domestic and commercial refrigeration;
- (5) Air conditioning and heat pump units;
- (6) Ice machines and water coolers;
- (7) Aerosol products (except medical aerosols);
- (8) Portable fire extinguisher;
- (9) Insulation boards, panels and pipe covers; and
- (10) Pre-polymers (a reactive mixture of isocyanate and polyol to which chlorofluorocarbons are added to make rigid plastic foams).

(E) Regulation 5 shall not apply to any:

- (1) imported controlled substance, or any goods containing any controlled substance, that is or are used only as packaging or as part of the packaging for any other imported goods; or
- (2) imported goods that are personal or household effects in respect of which the EQPB is satisfied that they are not intended for any other person, or for gift, sale, or exchange, provided that no bulk controlled substance may be considered a personal effect; or
- (3) any substances or goods that are on board, or form part of, any foreign ship or aircraft unless they are, while in the Republic of Palau, removed from that ship or aircraft.

a. For the purposes of this Regulation a foreign ship or aircraft is any ship or aircraft except:

- 1. a ship registered in Palau as set forth in 7 PNC § 105; or
- 2. an aircraft registered in Palau as set forth in 8 PNC §501(d).

(F) Nothing in this Part of this Regulation shall prevent an exemption being granted in respect of the importation or exportation of any substances or goods that are imported into the Republic only for the purpose of being transhipped into another ship or aircraft for carriage to a destination that is outside the territorial limits of the Republic.

2401-81-06 Prohibitions on Exportation

The exportation from the Republic of Palau of any bulk controlled substance specified in Part I – VIII of the Appendix to a non-complying country is prohibited.

2401-81-07 Prohibitions on Manufacture

The following substances or goods shall not be manufactured within the Republic under any circumstances:

- (1) any controlled substance;
- (2) any aerosol spray that contains any controlled substance other than methyl bromide;
- (3) any dry-cleaning machine that contains or is designed to use any controlled substance as a solvent; and
- (4) any fire extinguisher that contains any controlled substance.

2401-81-08 Prohibitions on Sales

This part takes affect six months after the adoption of these Regulations. Excluding the sale of secondhand goods, the following goods shall not be sold except pursuant to a permit issued pursuant to Part III:

- (1) any goods specified in Regulation 5; and
- (2) any fire extinguisher that contains any controlled substance listed in Parts I–VI of the Appendix.

2401-81-09 Prohibition on releasing a controlled substance to the atmosphere

No person may, in the course of installing, operating, servicing, dismantling or otherwise handling any equipment used in relation to any controlled substance, willfully or negligently permit any controlled substance to be discharged into the atmosphere.

PERMITS

2401-81-10 Quarantine and pre-shipment permits

The EQPB may issue a Quarantine and Pre-shipment Permit under this Regulation in relation to the importation of methyl bromide where it is satisfied that the methyl bromide is to be used for legitimate quarantine or pre-shipment applications and that the Republic of Palau will not thereby be in breach of its obligations under the Vienna Convention or the Montreal Protocol.

2401-81-11 Medical permits

The EQPB may issue a Medical Permit under this Regulation in relation to the importation of any product containing a controlled substance, where it is satisfied that it has a medical application relating to the protection of life or health and that the Republic of Palau will not thereby be in breach of its obligations under the Vienna Convention or the Montreal Protocol.

2401-81-12 Human Health or Safety Permits

The EQPB may issue a Human Health or Safety Permit under this Regulation in relation to the importation of any bulk controlled substance or goods containing any CFC, halon, methyl chloroform, or carbon tetrachloride where it is satisfied, that the bulk controlled substance or good is necessary for human health or safety; that there are no alternative products available to be used instead of the ozone depleting substance or goods; and that the Republic of Palau will not thereby be in breach of its obligations under the Vienna Convention or the Protocol.

2401-81-13 General permits

(A) The EQPB may issue a General Permit under this Regulation permitting the importation of a controlled substance or the sale of goods containing a controlled substance in a specified calendar year, if it is satisfied that the Republic of Palau will not thereby be in breach of its obligations under the Vienna Convention or the Montreal Protocol.

(B) When a General Permit relates to any CFC's, halon, methyl chloroform, carbon tetrachloride or methyl bromide for an application other than quarantine and pre-shipment fumigation, it shall cease to apply on 1 January 2006, or on such earlier date as is specified in the permit.

2401-81-14 Permit Application

(A) Any person engaging in an activity which requires a permit shall make an application for a permit to the EQPB on a form approved from time to time by the Board.

(B) A non-refundable fee of \$100.00 shall accompany each application, and additional fees as may be determined from time to time by the EQPB to be assessed to the person applying for the permit. No fee is required of the National Government of the Republic of Palau.

(C) The person applying for a permit shall provide any information, or further information, required by the EQPB.

2401-81-15 Permit Transfer

A permit shall not be transferable, whether by operation of law or otherwise, either from one person to another, or from one substance to another.

2401-81-16 Permit Limitations

(A) Any permit shall be subject to such conditions as may be imposed by the EQPB, including without limitation any condition requiring compliance with any approval, permission, license or accreditation available in another country or in the Republic of Palau, or by a Decision by the Parties relating to any controlled substance, any equipment used in relation to a controlled substance, or the manner in which a controlled substance may be used.

(B) All imports made under any permit shall remain subject to all other Acts of Government. The granting of a permit under these Regulations shall not relieve the holder of the permit from complying with all other laws of the Republic of Palau.

2401-81-17 Permit Duration

Each permit shall be valid for a period of one year, commencing on the date of issuance unless earlier suspended or revoked by the Board. Application for renewal shall be made to the EQPB for subsequent years, and may be granted with or without conditions.

2401-81-18 Permit Suspension or Revocation, Rejection, and Appeal

(A) A permit may be suspended or revoked by the Board for any violation of these Regulations whether committed by the permit holder or an employee thereof.

(B) An application for a permit may be rejected by the Board if any information provided is false or misleading.

(C) Any such violation during the one (1) year preceding the date of application for a permit may serve as grounds for rejection of same.

(D) Any person whose permit has been suspended or revoked, or whose application has been rejected may appeal to the Board to set aside such suspension, revocation, or rejection.

2401-81-19 Reporting

(A) A permit holder shall submit a report to the EQPB by the thirty-first (31st) of January of each year specifying all imports, exports and receipts of any controlled substances or goods for the previous year, and any other matter that the EQPB may from time to time require.

(B) Any person who exports any bulk controlled substance shall, within 14 days after the exportation, notify the EQPB in writing and shall give particulars of the substance exported, the date and amount of the export, and its destination.

ENFORCEMENT

2401-81-20 Right of Entry

For purposes of enforcing the provisions of these regulations, the EQPB is authorized to enter any establishment or other place where controlled substances are stored, held for distribution, sale or use, or used for the purposes of:

(1) Obtaining information, making inspections, inspecting or copying records, or plans required to be made and maintained;

(2) Collecting samples of any controlled substance, suspected controlled substance, or labeling; or

(3) Surveying, detecting, or investigating any offenses or suspected offenses committed in contravention of these Regulations.

2401-81-21 Detained, Denied, and Impounded Shipments

(A) Any shipment of a controlled substance or goods containing a controlled substance arriving in the Republic before the EQPB has granted a permit allowing its import shall be detained by the Palau Division of Customs and the EQPB notified. The EQPB shall then determine whether to grant a permit,

or to deny the application. The EQPB shall then provide instruction for disposition of the shipment.

(B) All expenses arising from the detainment of a shipment due to the failure of the importer to obtain a permit shall be payable by the importer. Failure of the importer to pay assessed costs may result in impoundment and/or denial of a permit, and/or any future application for a permit made by the importer.

(C) Any shipment of a controlled substance or goods containing a controlled substance for which delivery is denied may be disposed of by the EQPB if not exported by the consignee within ninety (90) days of denial of an application for a permit. All expenses for storage, cartage, labor, and shipping shall be payable by the consignee and any default of such payment shall entitle the EQPB to a lien on such goods or substances and the proceeds of sale.

(D) If the owner of an impounded shipment does not satisfy any and all liens against such shipment within ninety (90) days after notification in writing of the amount of said liens, the Board may take effect transfer of ownership of the shipment to the Board for satisfaction of said liens.

2401-81- 22 Stop Sale, Use, and Removal

(A) Whenever any controlled substance or good containing a controlled substance is found by the EQPB, the Board may issue a written or printed "stop sale, use, or removal" order to any person who owns, controls, or has custody of such controlled substance or good containing a controlled substance whenever there is reason to believe on the basis of inspection or tests that:

(1) Such controlled substance or good containing a controlled substance is in violation of the provisions of these regulations; or

(2) Such controlled substance or good containing a controlled substance has been or is intended to be distributed or sold in violation of any of the provisions of these regulations.

(B) After receipt of a "stop sale, use, or removal" order no person shall sell, use, or remove the controlled substance or good containing a controlled substance described in the order except in accordance with the provisions of the order.

2401-81-23 Appeals

Any person aggrieved by a decision of the Board in any case where—

(A) Conditions of a permit or exemption are unsatisfactory for any reason;

(B) An application for permit is declined;

(C) A permit is suspended or revoked; or

(D) When a "Stop Sale, Use, or Removal Order" has been issued—

—may appeal to the Board within ten (10) business days after notification of the Board's decision.

2401-81-24 Procedure for Appeals to the Board

Any person, who wishes to appeal any decision of the Board pursuant to Regulation 23, may do so in writing within ten (10) business days of receiving the decision for which the appeal is being made, or within such time as the Board may allow. The appeal must state the basis for contesting the decision of the Board.

2401-81-25 Decisions to Continue in Force Pending Appeal

Every decision of the Board appealed against under Regulation 23, shall continue in force pending the determination of the appeal, and no person shall be excused from complying with any of the provisions of these regulations on the grounds that an appeal is pending.

PENALTY

2401-81-26 Civil Penalty

Any person who violates these regulations or the terms and conditions of any permit issued hereunder or any order issued hereunder shall for each day of each violation, be subject to a civil penalty of not more than \$10,000 per day of violation.

2401-81-27 Criminal Penalty

In addition to any civil penalties any such person who negligently or willfully violates any provision of these regulations or the terms of any permit issued by the EQPB pursuant to these regulations shall be guilty of a misdemeanor and subject to punishment provided by 24 PNC § 171C.

APPENDIX

Controlled Substances

Part I CFCs (Chlorofluorocarbons)

Chemical Name	Common Name	Chemical Formula	Ozone Depleting Potential
fluorotrichloromethane	CFC-11	CFCl ₃	1.0
difluorodichloromethane	CFC-12	CF ₂ Cl ₂	1.0
trichlorotrifluoromethane	CFC-113	C ₂ F ₃ Cl ₃	0.8
dichlorotetrafluorethane	CFC-114	C ₂ F ₄ Cl ₂	1.0
chloropentafluoroethane	CFC-115	C ₂ F ₅ Cl	0.6

Part II Halons

Chemical Name	Common Name	Chemical Formula	Ozone Depleting Potential
bromochlorodifluoromethane	halon-1211	CF ₂ BrCl	3.0
bromotrifluoromethane	halon-1301	CF ₃ Br	10.0
dibromotetrafluoroethane	halon-2402	C ₂ F ₄ Br ₂	6.0

Part III Other CFCs (Chlorofluorocarbons)

Chemical Name	Common Name	Chemical Formula	Ozone Depleting Potential
trifluorochloromethane	CFC-13	CF ₃ Cl	1.0
fluoropentachloroethane	CFC-111	C ₂ FCl ₅	1.0
difluorotetrachloroethane	CFC-112	C ₂ F ₂ Cl ₄	1.0
fluoroheptachloropropane	CFC-211	C ₃ FCl ₇	1.0
difluorohexachloropropane	CFC-212	C ₃ F ₂ Cl ₆	1.0
trifluoropentachloropropane	CFC-213	C ₃ F ₃ Cl ₅	1.0
tetrafluorotetrachloropropane	CFC-214	C ₃ F ₄ Cl ₄	1.0
pentafluorotrichloropropane	CFC-215	C ₃ F ₅ Cl ₃	1.0
hexafluorodichloropropane	CFC-216	C ₃ F ₆ Cl ₂	1.0
heptafluorochloropropane	CFC-217	C ₃ F ₇ Cl	1.0

Part IV Carbon tetrachloride

Chemical Name	Common Name	Chemical Formula	Ozone Depleting Potential
fluorotrichloromethane	CFC-11	CFCl ₃	1.0
difluorodichloromethane	CFC-12	CF ₂ Cl ₂	1.0
trichlorotrifluoromethane	CFC-113	C ₂ F ₃ Cl ₃	0.8
dichlorotetrafluorethane	CFC-114	C ₂ F ₄ Cl ₂	1.0
chloropentafluoroethane	CFC-115	C ₂ F ₅ Cl	0.6

Part V Methyl chloroform

Chemical Name	Common Name	Chemical Formula	Ozone Depleting Potential
1,1,1-trichloroethane	methyl chloroform	1,1,1-trichloroethane	0.1

This formula does not refer to 1,1,2-trichloroethane.

Part VI HBFCs (Hydrobromofluorocarbons)				
Chemical Name	Common Name	Chemical Formula	Number of Isomers	Ozone Depleting Potential
fluorodibromomethane		CHBr ₂	1	1.00
difluorobromomethane	HBFC-22B1	CHF ₂ Br	1	0.74
fluorobromomethane		CH ₂ FBr	1	0.73
fluorotetrabromoethane		C ₂ HBr ₄	2	0.3-0.8
difluorotribromoethane		C ₂ HF ₂ Br ₃	3	0.5-1.8
trifluorodibromoethane		C ₂ HF ₃ Br ₂	3	0.4-1.6
tetrafluorobromoethane		C ₂ HF ₄ Br	2	0.7-1.2
fluorotribromoethane		C ₂ H ₂ FBr ₃	3	0.1-1.1
difluorodibromoethane		C ₂ H ₂ F ₂ Br ₂	4	0.2-1.5
trifluorobromoethane		C ₂ H ₂ F ₃ Br	3	0.7-1.6
fluorodibromoethane		C ₂ H ₃ FBr ₂	3	0.1-1.7
difluorobromoethane		C ₂ H ₃ F ₂ Br	3	0.2-1.1
fluorobromoethane		C ₂ H ₄ FBr	2	0.07-0.1
fluorohexabromopropane		C ₃ HBr ₆	5	0.3-1.5
difluoropentabromopropane		C ₃ HF ₂ Br ₅	9	0.2-1.9
trifluotetrabromopropane		C ₃ HF ₃ Br ₄	12	0.3-1.8
tetrafluorotribromopropane		C ₃ HF ₄ Br ₃	12	0.5-2.2
pentafluorodibromopropane		C ₃ HF ₅ Br ₂	9	0.9-2.0
hexafluorobromopropane		C ₃ HF ₆ Br	5	0.7-3.3
fluoropentabromopropane		C ₃ H ₂ FBr ₅	9	0.1-1.9
difluorotetrabromopropane		C ₃ H ₂ F ₂ Br ₄	16	0.2-2.1
trifluorobromopropane		C ₃ H ₂ F ₃ Br ₃	18	0.2-5.6
tetrafluorobromopropane		C ₃ H ₂ F ₄ Br ₂	16	0.3-7.5
pentafluorobromopropane		C ₃ H ₃ F ₅ Br	8	0.9-1.4
fluorotetrabromopropane		C ₃ H ₃ FBr ₄	12	0.08-1.9
difluorotribromopropane		C ₃ H ₃ F ₂ Br ₃	18	0.1-3.1
trifluorodibromopropane		C ₃ H ₃ F ₃ Br ₂	18	0.1-2.5
tetrafluorobromopropane		C ₃ H ₃ F ₄ Br	12	0.3-4.4
fluorotribromopropane		C ₃ H ₄ FBr ₃	12	0.03-0.3
difluorodibromopropane		C ₃ H ₄ F ₂ Br ₂	16	0.1-1.0
trifluorobromopropane		C ₃ H ₄ F ₃ Br	12	0.07-0.8
fluorodibromopropane		C ₃ H ₅ FBr ₂	9	0.04-0.4
difluorobromopropane		C ₃ H ₅ F ₂ Br	9	0.07-0.8
flurobromopropane		C ₃ H ₆ FBr	5	0.02-0.7

Part VII Methyl Bromide				
Chemical Name	Common Name	Chemical Formula	Number of Isomers	Ozone Depleting Potential
(Mono) bromoethane	methyl bromide	CH ₃ Br		0.60

Part VIII HCFCs (Hydrochlorofluorocarbons)				
Chemical Name	Common Name	Chemical Formula	Number of Isomers	Ozone Depleting Potential
fluorodichloromethane	HCFC-21	CHFCI ₂	1	0.04
difluorochloromethane	HCFC-22	CHF ₂ Cl	1	0.055
fluorochloromethane	HCFC-31	CH ₂ FCI	1	0.02
fluorotetrachloroethane	HCFC-121	C ₂ HFCl ₄	2	0.01-0.04
difluorotrichloroethane	HCFC-122	C ₂ HF ₂ Cl ₃	3	0.02-0.08
trifluorodichloroethane	HCFC-123	C ₂ HF ₃ Cl ₂	3	0.02-0.06
	HCFC-123	CHCl ₂ CF ₃	-	0.02
tetrafluorodichloroethane	HCFC-124	C ₂ HF ₄ Cl	2	0.02-0.04
	HCFC-124	CHFCICF ₃	-	0.022
fluorotrichloroethane	HCFC-131	C ₂ H ₂ FCI ₃	3	0.007-0.05
difluorodichloroethane	HCFC-132	C ₂ H ₂ F ₂ Cl ₂	4	0.008-0.05
trifluorochloroethane	HCFC-133	C ₂ H ₂ F ₃ Cl	3	0.02-0.06
fluorodichloroethane	HCFC-141	C ₂ H ₃ FCI ₂	3	0.005-0.07
		CH ₃ CFCl ₂	-	0.11
difluorochloroethane	HCFC-142	C ₂ H ₃ F ₂ Cl	3	0.008-0.07
		CH ₃ CF ₂ Cl	-	0.065
fluorochloroethane	HCFC-151	C ₂ H ₄ FCI	2	0.003-0.005
fluorohexachloropropane	HCFC-221	C ₃ HFCl ₆	5	0.015-0.07
difluoropentachloropropane	HCFC-222	C ₃ HF ₂ Cl ₅	9	0.01-0.09
trifluorotetrachloropropane	HCFC-223	C ₃ HF ₃ Cl ₄	12	0.01-0.08
tetrafluorodichloropropane	HCFC-224	C ₃ HF ₄ Cl ₃	12	0.01-0.09
pentafluorodichloropropane	HCFC-225	C ₃ HF ₅ Cl ₂	9	0.02-0.07
		CF ₃ CF ₂ CHCl ₂	-	0.025
		CF ₂ CICF ₂ CHCIF	-	0.033
hexafluorochloropropane	HCFC-226	C ₃ HF ₆ Cl	5	0.02-0.10
fluoropentachloropropane	HCFC-231	C ₃ H ₂ FCI ₅	9	0.05-0.09
difluorotetrachloropropane	HCFC-232	C ₃ H ₂ F ₂ Cl ₄	16	0.008-0.10
trifluorotrichloropropane	HCFC-233	C ₃ H ₂ F ₃ Cl ₃	18	0.007-0.23
tetrafluorodichloropropane	HCFC-234	C ₃ H ₂ F ₄ Cl ₂	16	0.01-0.28
pentafluorochloropropane	HCFC-235	C ₃ H ₂ F ₅ Cl	9	0.03-0.52
fluorotetrachloropropane	HCFC-241	C ₃ H ₃ FCI ₄	12	0.004-0.09
difluorotrichloropropane	HCFC-242	C ₃ H ₃ F ₂ Cl ₃	18	0.005-0.13
trifluorodichloropropane	HCFC-243	C ₃ H ₃ F ₃ Cl ₂	18	0.007-0.12
tetrafluorochloropropane	HCFC-244		12	0.009-0.14
fluorotrichloropropane	HCFC-251		12	0.001-0.01
difluorodichloropropane	HCFC-252		16	0.005-0.04
trifluorochloropropane	HCFC-253		12	0.003-0.03
fluorodichloropropane	HCFC-261		9	0.002-0.02
difluorochloropropane	HCFC-262		9	0.002-0.02
fluorochloropropane	HCFC-271		5	0.001-0.03

* Ozone depleting potential is determined in accordance with the relevant Annexes to the Montreal Protocol where a range of ODPs is indicated, the highest value in that range shall be used for the purposes of the Protocol. The ODPs listed as a single value have been determined from calculations based on laboratory measurements. Those listed as a range are based on estimates and are less certain. The range pertains to an isomeric group. The upper value is the estimate of the ODP of the isomer with the highest ODP, and the lower value is the estimate of the ODP of the isomer with the lowest ODP