

Data Reporting Forms

Party: _____

Reporting Year: _____

Respondents are requested to read the Introduction in section 2, the General Instructions on in section 4 and the Definitions in section 5 carefully before proceeding to the questionnaire and to refer to them as necessary when completing the data forms.

Questionnaire

1.1. Did your country import CFCs, halons, carbon tetrachloride, methyl chloroform, HCFCs, HBFCs, bromochloromethane, or methyl bromide in the reporting year?

Yes

No

If No, ignore data form 1 and go to question 1.2. If Yes, please complete data form 1. Please read Instruction I of this document carefully before filling in the form.

1.2. Did your country export CFCs, halons, carbon tetrachloride, methyl chloroform, HCFCs, HBFCs, bromochloromethane, or methyl bromide in the reporting year?

Yes

No

If No, ignore data form 2 and go to question 1.3. If Yes, please complete data form 2. Please read Instruction II of this document carefully before filling in the form.

1.3. Did your country produce CFCs, halons, carbon tetrachloride, methyl chloroform, HCFCs, HBFCs, bromochloromethane, or methyl bromide in the reporting year?

Yes

No

If No, ignore data form 3 and go to question 1.4. If Yes, please complete data form 3. Please read Instruction III of this document carefully before filling in the form.

1.4. Did your country destroy any ODSs in the reporting year?

Yes

No

If No, ignore data form 4 and go to question 1.5. If Yes, please complete data form 4. Please read Instruction IV of this document carefully before filling in the form.

1.5. Did your country import from or export to non-Parties in the reporting year?

Yes

No

If No, ignore data form 5. If Yes, please complete data form 5. Please read Instruction V of this document carefully, and, particularly, the definition of non-Parties before filling in the form.

Name of reporting officer: _____ Signature: _____

Designation: _____

Organization: _____

Postal Address: _____

Country: _____

Phone: _____ Fax: _____

E-Mail: _____

Date: _____

2. INTRODUCTION

2.1 The attached data forms have been designed to make reporting easier for the Parties. The reporting is prescribed by Article 7 of the Montreal Protocol and by various decisions of the Meeting of the Parties.

2.2 The major features of the forms are as follows:

- (a) Five separate data forms are provided for imports, exports, production, destruction of ozone depleting substances (ODSs) and trade with non-Parties, respectively. Please use only those data forms applicable to your country and ignore the other forms, after ticking off the respective "No" box in the questionnaire. For example, many Parties only import and do not export, produce, destroy or trade with non-Parties in any of the substances. If this is the case, please use only the Imports Data Form 1 and ignore the other forms, after ticking off the "No" boxes for questions 1.2 - 1.5 on the questionnaire.
- (b) A row has been provided for each of the substances in Annex A. However, for categories of Annex B CFCs and HCFCs, the form is made shorter by providing rows only for substances which have been reported by Parties in the past. A few blank rows are provided for more substances, if needed. HBFCs and BCM (Annex C, Groups II & III) have already been phased out by all Parties. Hence, only one blank row has been provided for them, as a formality. You can use the computerized forms supplied by the Secretariat or paper forms. Parties who use the computerized forms can easily add more rows as needed; if using paper forms, Parties are free to add pages as required.
- (c) The following are the exempted categories of ODSs:
 - Feedstocks for all the substances,
 - Essential uses for substances as approved by a Meeting of the Parties from time to time,
 - Quarantine and pre-shipment applications for Methyl Bromide, and
 - Critical or emergency uses of Methyl Bromide as approved from time to time.

It is necessary for each Party to specify how much of its production, export or import is used for these exempted categories. The Secretariat will deduct these exempted quantities from the total figures. Provision is made in the data forms for these exempted categories. For the essential and critical uses, provision has also been made for Parties to specify the Meeting of the Parties decision that approved the use or, in the case of uses covered by the global laboratory and analytical essential use exemption, the type of laboratory or analytical use.

- (d) The same forms can be used for the base year and other years.
- (e) The basis for reporting requirements and definitions are given in section 3 and section 5 below, respectively.
- (f) A "comments" box has been provided at the end of each form for Parties to include any additional information that they believe would assist the Secretariat process their data report.

3. REPORTING REQUIREMENTS

Reporting requirements under the Montreal Protocol and pursuant to decisions on requests for data by Meetings of the Parties are as follows:

<u>Basis for reporting</u>	<u>Information to be provided</u>
<i>Articles of the Protocol</i>	
(a) To verify implementation of Articles 2A - 2H	- Increased (annual) production of each ODS to meet the basic domestic needs of Article 5 Parties.
(b) Article 7	- Production, imports and exports of each of the controlled substances. - Amounts used for feedstock. - Amounts destroyed by technologies approved by the Parties. - Imports from and exports to non-Parties. - Imports and exports of recycled halons and HCFCs.
(c) Article 9	- Summary of activities (every two years).
(d) Article 2, paragraphs 5, 5 bis 6, 7	- Transfer or addition of production (as and when it occurs).
<i>Decisions of the Meetings of the Parties</i>	
(e) Decision IV/11, paragraph 3	- Report on statistical data on the actual quantities of ODS destroyed.
(f) Decision IV/17 A, paragraph 1	- Information on the implementation of Article 4.
(g) Decision IV/24, paragraph 2	- Import and export of recycled and used controlled substances.
(h) Decision V/15	- Information relevant to international halon bank management (see the On-line Halon Trader, http://www.halontrader.org , a "business to business" web portal developed by the UNEP DTIE OzonAction Programme under the Multilateral Fund, to contribute to the ozone protection by promoting halon banking and responsible halon management).
(i) Decision V/25 and VI/14 A	- Parties supplying ODS to Article 5 Parties to provide annually summary of requests from importing Parties.
(j) Decision VI/19, paragraph 4	- List of reclamation facilities and their capacities.
(k) Decision VII/30	- Importing countries to report to the Secretariat on the volumes of controlled substances imported for feedstock.
(l) Decision VII/32	- Report on measures taken to regulate import and export of products and equipment containing Annex A and Annex B substances and technology used in their manufacture.
(m) Decision X/14 and XVII/6	- Report on use of ODS as process agents, resulting emissions,

emission containment technologies employed and opportunities for emission reduction. Report on quantities of ODS produced or imported for process agent applications.

- (n) Decision XVII/16, paragraph 4 - Report on types, quantities and destinations of exports of all controlled substances.

Essential uses

- (o) Decision VIII/9, paragraph 9 - Report on quantities and uses of ODSs produced and consumed for essential uses.
- (p) Decision VI/9, paragraph 3 - Reports on each controlled substance produced for laboratory and analytical uses.
- (q) Decision XII/2, paragraphs 4, 5, 6 - Report efforts to transition to CFC-free treatments for asthma and chronic obstructive pulmonary disease, and submit a national or regional strategy to achieve the transition.
- (r) Decision XIV/5, paragraph 1 - Report information on CFC and CFC-free asthma and chronic obstructive pulmonary disease treatments.
- (s) Decision XV/5, paragraph 6 - Parties not operating under Article 5 to report the specific dates for cessation of essential-use exemption nominations for CFCs for metered-dose inhalers (MDI) where the active ingredient is not solely salbutamol and where the MDIs are expected to be sold or distributed on the market of any Party not operating under Article 5.
- (t) Decision XVII/12, paragraph 1 - Parties not operating under Article 5 that supply CFC to Article 5 Parties to meet their basic domestic needs are to include in their annual reports copies of written affirmations from Article 5 Parties confirming CFC are required and would not result in Article 5 Party's non-compliance.

Methyl bromide

- (u) Decision Ex.I/3, paragraph 5 - Parties that have a methyl bromide critical use exemption to report on the implementation of the requirement to ensure that the criteria in paragraph 1 of decision IX/6 are applied when licensing, permitting or authorizing the use of methyl bromide and that such procedures take into account available stocks.
- (v) Decision Ex.I/4, paragraph 2 - Parties seeking methyl bromide critical use exemptions and Parties that have ceased methyl bromide consumption to submit information on the alternatives available, listed according to their pre-harvest or post-harvest uses and the possible date of registration, if required, for each alternative; and on the alternatives which the Parties can disclose to be under development, listed according to their pre-harvest or post-harvest uses and the likely date of registration, if required and known, for those alternatives.
- (w) Decision Ex.I/4, paragraphs 3 and 6 - Parties seeking methyl bromide critical use exemptions to submit national methyl bromide phase out strategy and

describe methodology used to determine economic feasibility in the event that economic feasibility is used as a criterion to justify the critical use.

- (x) Decision Ex.I/4, paragraph 9 (f) and Decision Ex.II/1 paragraph 3

- Report on quantities and uses of methyl bromide produced, imported and export for critical uses in accounting framework.

4. GENERAL INSTRUCTIONS

- 4.1 Parties are requested to report the production and consumption of bulk ODSs in metric tonnes, without multiplying by the relevant ODPs (ozone depleting potentials).
- 4.2 In order to avoid duplication, quantities contained in manufactured products should not be included in a country's consumption, regardless of whether the end-products are imported or exported.
- 4.3 The data reported in accordance with the data forms will be used to determine the calculated levels of production and consumption, upon which the control measures are based. It is, therefore, crucial that data be provided separately for each individual substance listed in the forms.
- 4.4 When calculating consumption, the Montreal Protocol allows countries to deduct amounts of ODS used for feedstock uses, exempted essential and critical uses and for quarantine and pre-shipment applications. However, when reporting data, Parties should not deduct these figures from their data. The Secretariat will make the necessary deductions.
- 4.5 It should be noted that both paragraphs 1 and 2 of Article 7 of the Montreal Protocol provide that the Parties may submit the best possible estimates of data for the base year if actual data are not available.
- 4.6 Parties producing or consuming controlled substances for approved essential uses should also report to the Secretariat using the form approved by decision VIII/9, paragraph 9.
- 4.7 Parties producing or consuming methyl bromide for approved critical uses should also report to the Secretariat using the form approved by decision Ex.I/4 paragraph 9 (f) and decision Ex.II/1 paragraph 3.
- 4.8 Parties might import or export mixtures containing controlled substances. If this is the case, the Parties should calculate the quantity of each substance in the mixtures and fill in the appropriate quantities of those substances in the data form and not the quantities of the mixtures. In case of, for example, R-502 (HCFC-22 48.8%; CFC-115 51.2%), please report the quantity of the individual controlled substances contained in the mixture by entering the appropriate data under each controlled substance (e.g. R-502 should be reported as CFC-115 and HCFC-22). An illustrative list of mixtures containing ODS with their compositions is given in section 11. For further information about the composition and commercial trade names of chemical products containing ODS, visit the "Trade Names of Chemicals Containing Ozone Depleting Substances and their Alternatives" on the UNEP DTIE OzonAction at <http://www.unep.fr/ozonaction/library/tradenames/main.asp> . This worldwide database service is designed to help customs officials and National Ozone Units control imports and exports of ODS and prevent their illegal trade.
- 4.9 The Montreal Protocol stipulates, under paragraph 4 of Article 7, that the requirements in respect of statistical data on imports and exports shall be satisfied if a regional economic integration organization provides data on imports and exports between the organization and States that are not members of that organization. However, if any member of such an organization (the European Community) produces and exports substances to other Parties for exempted uses (e.g. feedstock, essential uses, critical uses, quarantine and pre-shipment applications for methyl bromide), such members should report these by completing the relevant columns in data form 2. This will enable the Secretariat to deduct their exports for exempted purposes from their levels of production which they report in data form 3.

5. DEFINITIONS

- 5.1 "Consumption" means production plus imports minus exports of controlled substances (Montreal Protocol, Article 1).
- 5.2 "Controlled substance" means a substance in Annex A, Annex B, Annex C or Annex E to the Protocol, whether existing alone or in a mixture. It includes the isomers of any such substance except as specified in the relevant Annex, but excludes any controlled substance or mixture (blend) which is in a manufactured product other than a container used for the transportation or storage of that substance (Montreal Protocol, Article 1).
- 5.3 "Destruction process" is one which, when applied to controlled substances, results in the permanent transformation or decomposition of all or a significant portion of such substances (decisions I/12F, IV/11, V/26 and VII/35).
- 5.4 "Production" means the amount of controlled substances produced, minus the amount destroyed by technologies approved by the Parties and minus the amount entirely used as feedstock in the manufacture of other chemicals. The amount recycled and reused is not to be considered as production (Montreal Protocol, Article 1). The data forms prescribe reporting of feedstock use and of quantities destroyed separately, and reporting of total production without deduction. The Secretariat would make the necessary deduction.
- 5.5 The amounts recovered, reclaimed or recycled (or reused) is not to be considered as "Production", even though they are to be reported.

"Recovery, Recycling and Reclamation" have been defined by the Parties (Decision IV/24) as follows:

- (a) "Recovery": The collection and storage of controlled substances from machinery, equipment, containment vessels, etc., during servicing or prior to disposal;
 - (b) "Recycling": The reuse of a recovered controlled substance following a basic cleaning process such as filtering and drying. For refrigerants, recycling normally involves recharge back into equipment. It often occurs "on-site";
 - (c) "Reclamation": The re-processing and upgrading of a recovered controlled substance through such mechanisms as filtering, drying, distillation and chemical treatment in order to restore the substance to a specified standard of performance. It often involves processing "off-site" at a central facility.
- 5.6 "Quarantine and preshipment applications" have been defined by the Parties (decision VII/5) as follows:
- (a) "Quarantine applications", with respect to methyl bromide, are treatments to prevent the introduction, establishment and/or spread of quarantine pests (including diseases), or to ensure their official control, where:
 - (i) Official control is that performed by, or authorized by, a national plant, animal or environmental protection or health authority;
 - (ii) Quarantine pests are pests of potential importance to the areas endangered thereby and not yet present there, or present but not widely distributed and being officially controlled.
 - (b) "Pre-shipment applications" are those treatments applied directly preceding and in relation to export, to meet the phytosanitary or sanitary requirements of the importing country or existing phytosanitary or sanitary requirements of the exporting country.
- 5.6 *bis* The Eleventh Meeting of the Parties decided in decision XI/12 that pre-shipment applications are those non-quarantine applications applied within 21 days prior to export to meet the official requirements of the importing country or existing official requirements of the exporting country. Official requirements are those which are performed by, or authorized by, a national plant, animal, environmental, health or stored product authority.

5.7 The Parties decided at their Fourth Meeting (Decision IV/14):

"To clarify Article 7 of the amended Protocol so that it is understood to mean that, in cases of transshipment of controlled substances through a third country (as opposed to imports and subsequent re-exports), the country of origin of the controlled substances shall be regarded as the exporter and the country of final destination shall be regarded as the importer. Cases of import and re-export should be treated as two separate transactions; the country of origin would report shipment of the country of intermediate destination, which would subsequently report the import from the country of origin and export to the country of final destination, while the country of final destination would report the import."

5.8 "The Parties decided at their Eighth Meeting (Decision VIII/14):

"To clarify decision I/12A of the First Meeting of the Parties as follows: trade and supply of methyl bromide in cylinders or any other container will be regarded as trade in bulk in methyl bromide."

5.9 "Regional Economic Integration Organization" means an organization constituted by sovereign States of a given region which has competence in respect of matters governed by the Vienna Convention or its protocols and has been duly authorized, in accordance with its internal procedures, to sign, ratify, accept, approve or accede to the instruments concerned. The only such organization for the purpose of the Montreal Protocol is the European Community.

The Montreal Protocol stipulates, under paragraph 8(a) of Article 2, that any Parties which are member States of a regional economic integration organization as defined above may agree that they shall jointly fulfil their obligations respecting consumption provided that their total combined calculated level of consumption under Articles 2, 2A and 2H of the Protocol does not exceed the levels required by these Articles.

6. INSTRUCTION I: Data on Imports of ODSs (Data Form 1)

- 6.1 For reporting data on imports of substances listed in Annex A (CFCs and halons), Annex B (other fully halogenated CFCs, methyl chloroform and carbon tetrachloride), Annex C (HCFCs, HBFCs or BCM) or Annex E (methyl bromide), please use data form 1.
- 6.2 In column 2 of Data Form 1, all substances of Annex A and Annex B (Groups II and III) have been listed. For Annex B Group I (Other fully halogenated CFCs) and Annex C Group I (HCFCs), only substances which have been reported by Parties in the past are listed. HBFCs have already been phased out by all Parties and hence for HBFCs only one blank row has been provided as a formality. If you are importing controlled substances other than those listed, please use the blank space to report data on these substances, and use additional pages, if necessary.
- 6.3 If your country imported mixtures (blends) of controlled substances, e.g. R-502 (HCFC-22 48.8%; CFC-115 51.2%), please report the quantity of the individual controlled substances contained in the mixture by entering the appropriate data under each controlled substance (e.g. R-502 should be reported as CFC-115 and HCFC-22). An illustrative list of mixtures with their compositions is given in section 11. For further information about the composition and commercial trade names of chemical products containing ODS, visit the "Trade Names of Chemicals Containing Ozone Depleting Substances and their Alternatives" on the UNEP DTIE OzonAction at <http://www.unep.fr/ozonaction/library/tradenames/main.asp> . This worldwide database service is designed to help customs officials and National Ozone Units control imports and exports of ODS and prevent their illegal trade.
- 6.4 Please enter the number of metric tonnes imported in column 3 of Data Form 1 for each substance imported. If you did not import any of the substances listed, or if you have imported only recovered or reclaimed substances, please enter zero (0) in column 3 for "New" for each substance. If you imported any recovered or reclaimed substances, please enter the data in column 4.
- 6.5 When calculating a Party's consumption, substances used as feedstock for the production of other chemicals are exempted. Substances so used are completely transformed in the manufacturing process of the new chemical. In reporting total quantities of new substances imported in column 3, the quantities imported for feedstocks, reported in column 5, should not be deducted. Similarly, the quantities imported for essential and critical uses, reported in column 6, should not be deducted. The Secretariat will make the necessary deductions. With regard to column 7, provision has been made for Parties to indicate against each type of ODS imported for essential or critical uses, the Meeting of the Parties decision that approved the use or, in the case of uses covered by the global laboratory and analytical essential use exemption, the type of laboratory or analytical use. Should the column space be insufficient, further information can be provided in the "comments" box at the end of the form.
- 6.6 When calculating a Party's consumption of methyl bromide, the quantities used for quarantine and pre-shipment (QPS) applications are exempted. In data form 1, quantities of methyl bromide imported for quarantine and pre-shipment applications should be entered separately at the bottom of the form, and not deducted from the total quantity imported. The Secretariat will make the necessary deductions.

chemical(s) you exported. If you exported any recovered or reclaimed substances, please enter the data in column 4.

- 7.7. When calculating a Party's consumption, the Montreal Protocol does not include ODSs used as feedstock for the production of other chemicals. ODSs so used are completely transformed in the manufacturing process of new chemicals. On reporting in column 3 the total quantities of new substances exported, the quantities exported to be used as feedstock reported in column 5, should not be deducted. Similarly, the quantities exported for essential and critical uses, reported in column 6, should not be deducted. The Secretariat will make the necessary deductions. With regard to column 7, provision has been made for Parties to indicate against each type of ODS exported for essential or critical uses, the Meeting of the Parties decision that approved the use or, in the case of uses covered by the global laboratory and analytical essential use exemption, the type of laboratory or analytical use. Should the column space be insufficient, further information can be provided in the "comments" box at the end of the form.
- 7.8. When calculating a Party's consumption of methyl bromide, quantities used for quarantine and pre-shipment (QPS) applications are exempted. In Data Form 2, quantities of Methyl Bromide exported for quarantine and pre-shipment applications should be entered separately, and not deducted from the quantity exported. The Secretariat will make the necessary deductions.

8. INSTRUCTION III: Data on Production of ODSs (Data Form 3)

- 8.1. For reporting data on production of substances listed in Annex A (CFCs and Halons), Annex B (other fully halogenated CFCs, methyl chloroform and carbon tetrachloride), Annex C (HCFCs, HBFCs or BCM), or Annex E (methyl bromide), use data form 3.
- 8.2. In column 2 of data form 3, all substances in Annex A and Annex B, Groups II and III, have been listed. For Annex B, Group I (other fully halogenated CFCs) and Annex C, Group I (HCFCs), only substances which have been reported by Parties in the past are listed. HBFCs have already been phased out by all Parties and hence for HBFCs only one blank row has been provided as a formality. If you are producing controlled substances other than those listed, please use the blank space to report data on these substances, or use additional pages, if necessary.
- 8.3. In column 3 of data form 3, please give the total production of your country without making any deductions for feedstock, destruction, export for feedstock uses, or any other use. The quantity of production used for feedstock within your country reported in column 4, and for essential and critical uses within your country reported in columns 5, should not be deducted from the total production. Similarly, production for supply to Article 5 Parties filled in the form in column 7, should not be deducted from the total production. Please report exports of ODS to be used for feedstock by the importing country in column 5 of data form 2 (Data on Exports) and not in data form 3 (this form). The Secretariat will make the necessary deductions. With regard to production for essential or critical uses, provision has been made in column 6 for Parties to indicate against each type of ODS produced for essential or critical uses, the Meeting of the Parties decision that approved the use or, in the case of uses covered by the global laboratory and analytical essential use exemption, the type of laboratory or analytical use. Should the column space be insufficient, further information can be provided in the "comments" box at the end of the form.
- 8.4. When calculating a Party's consumption, the Montreal Protocol does not include ODS which is used as a feedstock for the production of other chemicals. ODS so used is completely transformed in the manufacturing process of the new chemical. If your country produced ODS for feedstock use within the reporting period, please provide data on the quantity of each ODS produced for feedstock purposes in column 4.
- 8.5. Producers of Annex A and Annex B substances are allowed to produce additionally, 10 per cent (prior to phase out) or 15 per cent (after phase out), of their base-year production to meet the basic domestic needs of Parties operating under Article 5 paragraph 1. If your country produced ODS for this purpose, please enter the amount so produced in column 7 on Data Form 3.
- 8.6. When calculating a Party's consumption of methyl bromide, quantities produced for quarantine and preshipment (QPS) applications are exempted. In data form 3, the total quantities of methyl bromide produced for quarantine and preshipment applications should be entered separately at the bottom of the form and not deducted from the total quantity produced. The Secretariat will make the necessary deduction.

9. INSTRUCTION IV: Data on Destruction of ODSs (Data Form 4)

- 9.1. Very few countries have the capacity to destroy ODSs using approved destruction technologies. If your country has destroyed any of the substances listed in Annex A (CFCs and Halons), Annex B (other fully halogenated CFCs, methyl chloroform and carbon tetrachloride), Annex C (HCFCs, HBFCs or BCM), or Annex E (methyl bromide) in the reporting period, please use data form 4.
- 9.2. The first column ("SUBSTANCES") has been left blank because each Party may destroy different substances. Please list only the names of those substances destroyed in the reporting year.
- 9.3. When calculating a Party's consumption, the Montreal Protocol does not include the amount of substances destroyed, if destruction occurred through the use of a Protocol-approved technology. If you have destroyed any substance in the reporting year, do not deduct the quantity destroyed reported in column 2 of Data Form 4 from the quantity produced reported in column 3 of Data Form 3. The Secretariat will make the necessary deductions.

10. INSTRUCTION V: Data on Imports from and Exports to Non-Parties (Data Form 5)

- 10.1 Please use Data Form 5 for reporting data on imports from and exports to non-Parties of substances of Annex A (CFCs and halons), Annex B (Other fully halogenated CFCs, methyl chloroform and carbon tetrachloride), Annex C (HCFCs, HBFCs or BCM) or Annex E (methyl bromide).
- 10.2. The first column "SUBSTANCES" has been left blank because each Party may import different substances from and/or export different substances to non-Parties. Please fill in only the names of those substances that were imported from and/or exported to non-Parties.
- 10.3. "Non-Party" means:
 - With respect to Annex A substances, all countries that have not ratified the 1987 Montreal Protocol.
 - With respect to Annex B substances, all countries that have not ratified the London Amendment.
 - With respect to Annexes C and E substances, all countries that have not ratified the Copenhagen Amendment.
- 10.4 The status of ratification of the 1987 Montreal Protocol and of the London and Copenhagen Amendments to the Montreal Protocol, can be found in a document published by the Secretariat and updated four times a year. This information is also available on the website of the Ozone Secretariat, at: http://ozone.unep.org/Treaties_and_Ratification/index.asp

11. ILLUSTRATIVE LIST OF MIXTURES CONTAINING ODS*

11.1: Zeotrope Mixtures

No.	Refrigerant Number (Trade Name) of Mixture	Composition							
		Component 1		Component 2		Component 3		Component 4	
1	R401A (MP 39)	HCFC22	53%	HFC152a**	13%	HCFC124	34%		
2	R401B (MP 66)	HCFC22	61%	HFC152a**	11%	HCFC124	28%		
3	R401C (MP 52)	HCFC22	33%	HFC152a**	15%	HCFC124	52%		
4	R402A (HP 80)	HFC125**	60%	HC290**	2%	HCFC22	38%		
5	R402B (HP 81)	HFC125**	38%	HC290**	2%	HCFC22	60%		
6	R403A (69S)	HC290**	5%	HCFC22	75%	FC218**	20%		
7	R403B (69L)	HC290**	5%	HCFC22	56%	FC218**	39%		
8	R405A (G2015)	HCFC22	45%	HFC152a**	7%	HCFC142b	6%	C318	43%
9	R406A (GHG-12)	HCFC22	55%	HC600a**	4%	HCFC142b	41%		
10	R408A (FX10)	HFC125**	7%	HFC143a**	46%	HCFC22	47%		
11	R409A (FX56)	HCFC22	60%	HCFC124	25%	HCFC142b	15%		
12	R409B (FX 57)	HCFC22	65%	HCFC124	25%	HCFC142b	10%		
13	R411A (G2018A)	HC1270**	2%	HCFC22	88%	HFC152a**	11%		
14	R411B (G2018B)	HC1270**	3%	HCFC22	94%	HFC152a**	3%		
15	R412A (TP5R)	HCFC22	70%	FC218**	5%	HCFC142b	25%		
16	R414B(Hotshot)	HCFC22	50%	HCFC124	39%	HCFC142b	9.5%	HC600a**	1.5%

11.2: Azeotrope Mixtures

No.	Refrigerant Number (Trade Name) of Mixture	Composition			
		Component 1		Component 2	
1	R500	CFC12	74%	HFC152a**	26%
2	R501	HCFC22	75%	CFC12	25%
3	R502	HCFC22	49%	CFC115	51%
4	R503	HFC23**	40%	CFC13	60%
5	R504	HFC32**	48%	CFC115	52%
6	R505	CFC12	78%	HCFC31	22%
7	R506	HCFC31	55%	CFC114	45%
8	R507A (AZ50)	HFC125**	50%	HFC143a**	50%
9	R509 (TP5R2)	HCFC22	46%	FC218**	54%

* For more information about trade names for mixtures and pure substances, visit the "Trade Names of Chemicals Containing Ozone Depleting Substances and their Alternatives" on the UNEP DTIE OzonAction at <http://www.unep.fr/ozonaction/library/tradenames/main.asp>. This worldwide database service is designed to help customs officials and National Ozone Units control imports and exports of ODS and prevent their illegal trade.

** Not ozone-depleting substances.

11.3: Unnamed Mixtures

No.	Trade Name of Mixture	Composition							
		Component 1		Component 2		Component 3		Component 4	
1	FX20	HFC125**	45%	HCFC22	55%				
2	FX55	HCFC22	60%	HCFC142b	40%				
3	D136	HCFC22	50%	HCFC124	47%	HC600a**	3%		
4	Daikin Blend	HFC23**	2%	HFC32**	28%	HCFC124	70%		
5	FRIGC	HCFC124	39%	HFC134a**	59%	HC600a**	2%		
6	Free Zone	HCFC142b	19%	HFC134a**	79%	Lubricant	2%		
7	GHG-HP	HCFC22	65%	HCFC142b	31%	HC600a**	4%		
8	GHG-X5	HCFC22	41%	HCFC142b	15%	HFC227ca	40%	HC600a**	4%
9	NARM-502	HCFC22	90%	HFC152a**	5%	HFC23**	5%		
10	NASF-S-III*	HCFC22	82%	HCFC123	4.75%	HCFC124	9.5%		3.75%

11.4: Methyl Bromide Mixtures

No.	Trade Name of Mixture	Composition			
		Component 1		Component 2	
1	methyl bromide with chloropicrin**	methyl bromide	67%	chloropicrin	33%
2	methyl bromide with chloropicrin**	methyl bromide	98%	chloropicrin	2%

* A halon alternative

** Not ozone depleting substances.

