Subpart OO - Only for Facilities that Produce, Transform, and/or

| Markshoot Instructions | | |
|---|---|--|
| Worksheet Instructions: | | |
| Please complete Part 1 below. If applicable, please identify the processes that produce | | |
| | ess identification picklists presented on the Product | |
| will be used as the basis for the proc | ess identification picklists presented on the Froduct | |
| Version: | | |
| R.07 | | |
| External Links: | | |
| Subpart OO Resources Page: | http://www2.epa.gov/ghgreporting/subpart-oo-su | |
| Reporting Form Help Content: | http://www.ccdsupport.com/confluence/display/h | |
| Optional Calculation Spreadsheet: | http://www.ccdsupport.com/confluence/display/h | |
| Workbook Navigation: | | |
| Part 1- Facility Information | | |
| Part 2 - Production & Transformation Process Information | | |
| Part 2a - Production Process Inform | Part 2a - Production Process Information | |

Part 1 - Facility Information

Part 2b - Transformation Process Information

Instructions: Complete the following facility information.

| Facility Name: | |
|-------------------|--|
| GHGRP ID: | |
| Reporting Period: | |

Part 2 - Production/Transformation/Destruction Process Informa

Instructions: Identify and describe each production/transformation/destruction pragain on the Products and Onsite Transformation tabs when you enter product in "Transformation or Destruction Process" in Column C.

| | Unique Identifier [98.416(a)] | Is the unique identifier associated with an F-GHG, F-HTF, or N ₂ O production process, an F-GHG, F-HTF, or N ₂ O transformation/destruction process or both? |
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Destroy F-GHGs, F-HTFs, and/or N₂O

Updated: 10/4/2019

or transform F-GHGs, F-HTFs, and/or N_2O at the facility in Part 2 of this pag is and Onsite Transformation pages. Please do not skip rows.

ppliers-industrial-greenhouse-gases

elp/Reporting+Form+Instructions

elp/Optional+Calculation+Spreadsheet+Instructions

Part 3 - On-Site Destruction Information

Part 4 - Off-Site Transformation Information

Part 5 - Off-Site Destruction Information

tion

ocess at the facility. Each identifier entered in Column B must be unique formation. Note: If your facility only operates processes that destroys

| | B 4b |
|---------------------------|---|
| Description (optional) | Does the process produce the F- GHGs, F-HTFs, or N ₂ O? |
| (optional) | 3, 01 N ₂ 0 : |
| [98.416(a)] | [98.416(a)(1)] |
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| e. Process Identifiers entered in Column B |
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ue. These identifiers will be referenced F-GHGs and/or F-HTFs please select

| Does the process transform or destroy the F-GHG, F-HTFs, or N ₂ O produced at an off-site location? |
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| [98.416(a)(2)] |
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Subpart OO - Only for Facilities that Produce F-GHGs, F-HTF!

| Worksheet Instructions: | | |
|--|---|--|
| Please identify the F-GHGs, F-HTFs, and/or N ₂ O produced by processes at the faci | | |
| common F-GHGs is presented in Col C. If the product in question is not present in found on the Listed F-GHGs page. | | |
| Version: | | |
| R.07 | | |
| External Links: | | |
| Subpart OO Resources Page: | http://www2.epa.gov/ghgreporting/subpart-oo-s | |
| Reporting Form Help Content: | http://www.ccdsupport.com/confluence/display | |
| Optional Calculation Spreadsheet: | http://www.ccdsupport.com/confluence/display | |
| Workbook Navigation: | | |
| Part 1- Facility Information | | |
| Part 2 - Production & Transformation Process Information | | |
| Part 2a - Production Process Information | | |
| Part 2b - Transformation Process Information | | |

Part 2a - Production Process Information

Instructions: Identify each F-GHG, F-HTF, or N₂O produced by the process. Re

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| | Produ |
| Unique Production Process Identifier [98.416(a)] | If not listed, select "Search Extended List" F-GHG or F-HTF not listed" and enter the in produces two or more F-GHGs simultaneously weight, list the individual F-GHG constitution. |
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lity. For each product, identify process in Column B and the name of Column C then select "Search Extended List" and find the product in (

suppliers-industrial-greenhouse-gases

/help/Reporting+Form+Instructions

/help/Optional+Calculation+Spreadsheet+Instructions

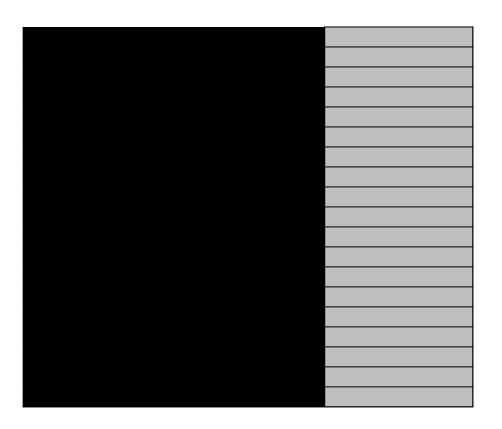
Part 3 - On-Site Destruction Information

Part 4 - Off-Site Transformation Information

Part 5 - Off-Site Destruction Information

port the production of blend components, but not the production

| ses | CASRN: |
|--|--|
| | |
| aced F-GHG, F-HTF, or N ₂ O | |
| ' to activate column 'D' for a comprehensive nformation required in columns 'F', 'G', 'H', usly, and their concentrations in the produc tuents of the product in order of declining of product [98.416(a)(1)] | and 'I'. If the process at exceed 0.1 percent |
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| the product in Columns C and D. A list of Column D. A complete list of products can be | |
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| n of blends (unless the "blend" consists of F | -GHG components that are simultaneously |
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| Other F-GHG: | CASRN: |
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If an F-GHG chemical is not listed, search EPA's Substance Registry Services (SRS) by registry number (CASRN) and enter chemical here. If an F-GHG constituent cannot be

entering its name and, if available, CASRN [98.416(a)(1)]













produced by the same process). Do not inclu

y name and/or Chemical Abstracts Service found via SRS search, add the F-GHG by

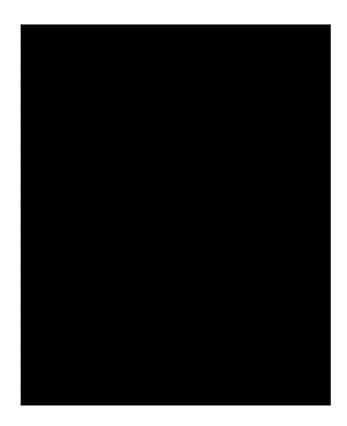












| ude isolated intermediates that are produced and trans | sformed at the same | facility. Report all |
|---|--|---|
| Specify F-GHG or F-HTF Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)] | Mass measured coming out of the production process (metric tons) | Was the mass determined using a missing data procedure? [98.416(a)(16)] |
| | | |

significant figures (including fractions of a metric ton, if applicable).

| Mass determined using the missing data procedure (metric tons) | Number of hours that a missing data procedure was used to measure the mass coming out of the production process | Reason a missing data procedure was used [98.416(a)(16)] | Method used to estimate the missing data [98.416(a)(16)] |
|--|--|---|--|
| [90.410(a)(10)] | [90.410(a)(10)] | [90.410(a)(10)] | [90.410(a)(10)] |
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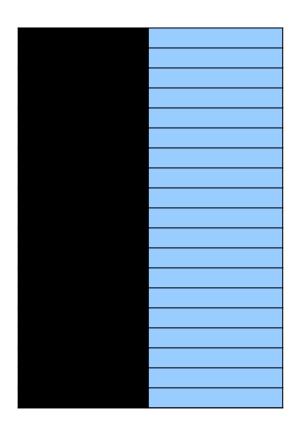




Specify the
"Other"
measurement
method used to
determine mass
(if applicable)

[98.416(a)(16)]

[98.416(a)(13)]



Subpart OO - Only for Facilities that Transform F-GHGs, F-HTFs,

| Worksheet Instructions: | | |
|--|---|--|
| Please identify the F-GHGs, F-HTFs, and/or $\mathrm{N_2O}$ transformed at the facility. For each F-O | | |
| Columns C and D. A list of common F-GI products can be found on the Listed F-G | HGs is presented in Col C. If the product in ques HGs page. | |
| Version: | | |
| R.07 | | |
| External Links: | | |
| Subpart OO Resources Page: | http://www2.epa.gov/ghgreporting/subpart-oo-s | |
| Reporting Form Help Content: | http://www.ccdsupport.com/confluence/display | |
| Optional Calculation Spreadsheet: | http://www.ccdsupport.com/confluence/display | |
| Workbook Navigation: | | |
| Part 1- Facility Information | | |
| Part 2 - Production & Transformation Process Information | | |
| Part 2a - Production Process Information | 1 | |
| | | |

Part 2b - Transformation Process Information

Part 2b - Transformation Process Information

Instructions: Identify each F-GHG, F-HTF, and ${\rm N_2O}$ transformed by the process. Do

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| Unique Transformation Process | (if not listed, select "Search Extended Li GHG or F-HTF not listed" and e |
| Identifier | GIIG OF FITTE HOT HISTER AND E |
| [98.416(a)] | |
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3HG, F-HTFs, and/or N_2O transformed, identify process in Column B and the stion is not present, in Column C then select "Search Extended List" and find t

suppliers-industrial-greenhouse-gases

/help/Reporting+Form+Instructions

/help/Optional+Calculation+Spreadsheet+Instructions

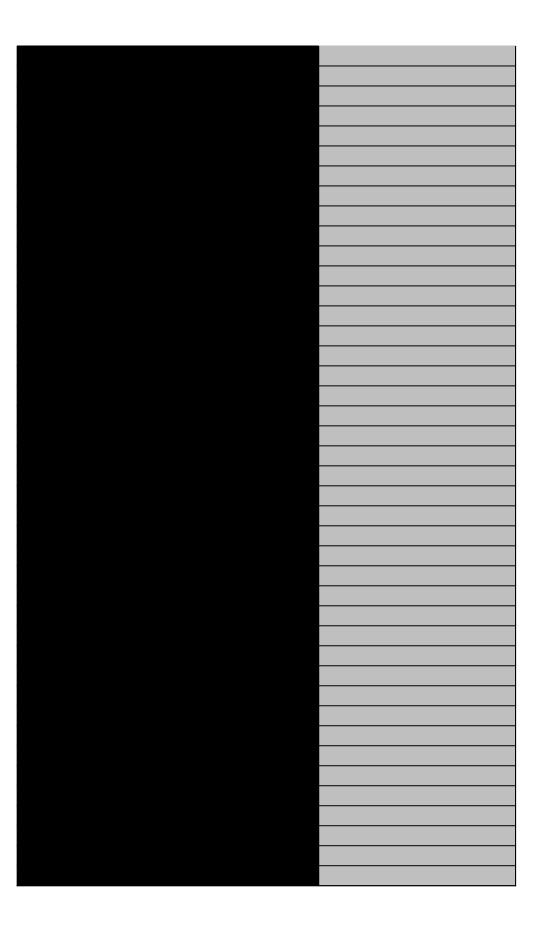
Part 3 - On-Site Destruction Information

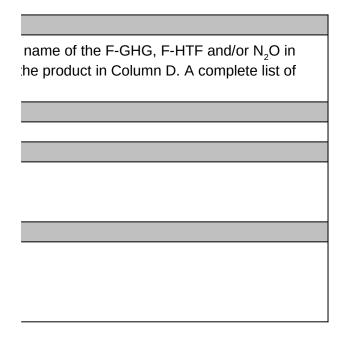
Part 4 - Off-Site Transformation Information

Part 5 - Off-Site Destruction Information

not include isolated intermediates that are produced and transformed a

| ses | CASRN: | | |
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| | | | |
| ncluded F-GHG, F-HTF, or N ₂ O | | | |
| st" to activate column 'D' for a comprehensive list or select "Other F- enter the information required in columns 'F', 'G', 'H', and 'I') | | | |
| [98.416(a)(2))] | | | |
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at the same facility. Report all significant figures (including fractions of a \mathbf{m}

| Other F-GHG: | CASRN: |
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| If an F-GHG chemical is not listed, search E | |
| Abstracts Service registry number (CASRN |) and enter chemical here. If an |
| via SRS search, add the F- | GHG by entering its name and, i |
| · | [98.416(a)(1)] |
| | [001-120(0)(1)] |
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etric ton, if applicable).

| Chemical Formula: | |
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| ace (CDC) by name and/or Chamical | Specify F CLIC Cotogony for Durposes of Fetimeting |
| ces (SRS) by name and/or Chemical F-GHG constituent cannot be found | Specify F-GHG Category for Purposes of Estimating GWP (if necessary) |
| f available, CASRN | [98.3(c)(5)(ii)] |
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| Mass transformed at facility (metric tons) [98.416(a)(2)] | Mass fed into the transformation process (metric tons) [98.416(a)(10)] | Was any of the mass that was fed into the transformation process determined using a missing data procedure? [98.416(a)(16)] |
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Mass determined using the missing data procedure was used to measure the mass fed into the transformation process

[98.416(a)(16)]

Number of hours that a missing data procedure was used to measure the mass fed into the transformation process

[98.416(a)(16)]

[98.416(a)(16)]

[98.416(a)(16)]

[98.416(a)(16)]



Method used to estimate the missing data

[98.416(a)(16)]

Specify the "Other" measurement method used to determine mass (if applicable)

[98.416(a)(16)]



Subpart OO - Only for Facilities that Destroy Onsite F-GHGs and/or I

Worksheet Instructions:

Please identify each F-GHG or F-HTF that was previously produced at any facility and that we destruction and quantities that are returned to your facility for reclamation but are found to be

Version:

R.07

External Links:

Subpart OO Resources Page: <a href="http://www2.epa.gov/ghgreporting/subpart-oo-geta-porting-n

Workbook Navigation:

Part 1- Facility Information

Part 2 - Production & Transformation Process Information

Part 2a - Production Process Information

Part 2b - Transformation Process Information

Part 3 - On-Site Destruction Information

Instructions: Identify each F-GHG or F-HTF that was previously produced (as defined a to your facility by another facility for destruction and quantities that are returned to yo of a metric ton, if applicable).

Does your facility destroy F-GHGs or F-HTFs? [98.416(a)(3)]

Gases

Previously produced F-GHG or F-HTF that was destroyed at the

(if not listed, select "Search Extended List" to activate column 'C' for a comprehensiv or F-HTF not listed" and enter the information required in columns 'E', '

[98.416(a)(3)]

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| as destroyed at your facility. For example | e, this may include quantities that are shipped to your f | acility by |
|--|---|------------|
| irretrievably contaminated. | | |

suppliers-industrial-greenhouse-gases

/help/Reporting+Form+Instructions

/help/Optional+Calculation+Spreadsheet+Instructions

Part 3 - On-Site Destruction Information

Part 4 - Off-Site Transformation Information

Part 5 - Off-Site Destruction Information

ut 98.410(b), at any facility) and that was destroyed at your facility. For example, this may include ur facility for reclamation but are found to be irretrievably contaminated. Report all significant f

| / another facility for |
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e quantities that are shipped igures (including fractions

Chemical Formula:

try Services (SRS) by name enter chemical here. If an Fby entering its name and, if

Specify F-GHG Category for Purposes of Estimating GWP (if necessary)

[98.3(c)(5)(ii)]



| Mass of the F-GHG or F- HTF destroyed at the facility (metric tons) [98.416(a)(3)] | Mass fed into the destruction device (metric tons) [98.416(a)(11)] | Was the F-GHG or F-HTF mass determined using a missing data procedure? [98.416(a)(16)] |
|--|---|---|
| | | |
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Mass determined using the missing data procedure (metric tons)

[98.416(a)(16)]

Number of hours that a missing data procedure was used to measure the mass fed into the destruction device

[98.416(a)(16)]

Reason a missing data procedure was used

[98.416(a)(16)]



Method used to estimate the missing data

[98.416(a)(16)]

Specify the "Other" measurement method used to determine mass (if applicable)

[98.416(a)(16)]



Subpart OO - Only for Facilities that Send F-GHGs, F-HTFs, and

| Worksheet Instructions: | | | |
|---|--|--|--|
| Please identify the name and address of the offsite transformation facility to which F-G F-HTF, and/or N ₂ O that are sent to each transformation facility in Part 4b. | | | |
| Version: | | | |
| R.07 | | | |
| External Links: | | | |
| Subpart OO Resources Page: | http://www2.epa.gov/ghgreporting/subpart-oo- | | |
| Reporting Form Help Content: | http://www.ccdsupport.com/confluence/display | | |
| Optional Calculation Spreadsheet: | http://www.ccdsupport.com/confluence/display | | |
| Workbook Navigation: | | | |
| Part 1- Facility Information | | | |
| Part 2 - Production & Transformation Process Information | | | |
| Part 2a - Production Process Information | | | |
| Part 2b - Transformation Process Information | | | |

Part 4a - Off-Site Transformation Facility Information

Instructions: Provide the following information for each facility to which any of tl

| | Facility Name | Is the Facility US based? |
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Part 4b - Off-Site Transformation Facility Shipment Information Instructions: Provide the following information for each F-GHG, F-HTF, or N₂C significant figures (including fractions

| | Gas |
|-----------------|--|
| | |
| | Previously produced F-GHG, F-H |
| Facility Name | (if not listed, select "Search Extended List or F-HTF not listed" and ent |
| [98.416(a)(14)] | |
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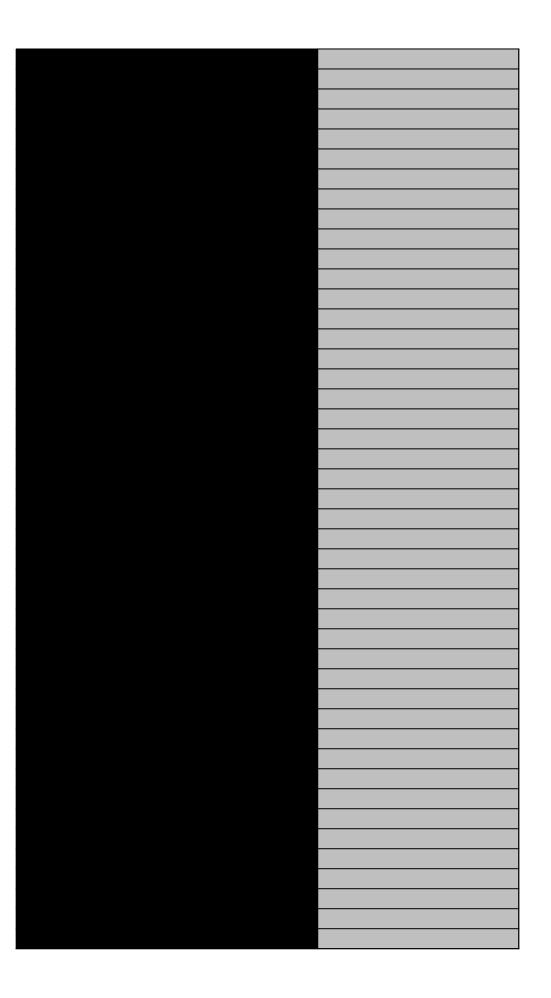
| HG, F-HTF, and/or N ₂ O is sent in Part 4a. Then identify the specific F-GHG | |
|---|--|
| | |
| | |
| | |
| suppliers-industrial-greenhouse-gases | |
| /help/Reporting+Form+Instructions | |
| /help/Optional+Calculation+Spreadsheet+Instructions | |
| | |
| Part 3 - On-Site Destruction Information | |
| Part 4 - Off-Site Transformation Information | |
| Part 5 - Off-Site Destruction Information | |
| | |
| | |

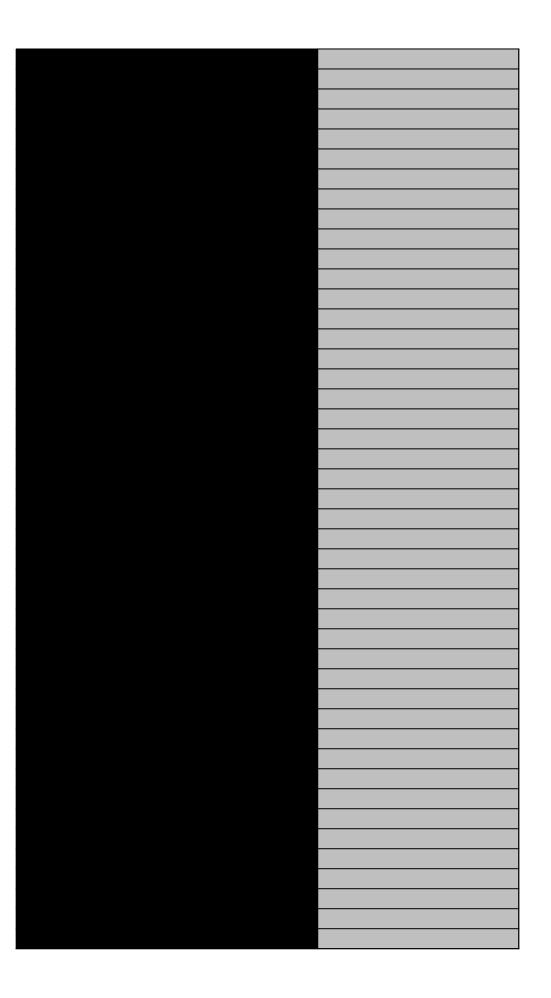
he produced F-GHG, F-HTF, or $\mathrm{N_2O}$ were sent for transformation per 98.4

| US Street Address | US City |
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) produced that was sent to the facility for transformation. Report all of a metric ton, if applicable).

| ses | CASRN | |
|---|--------------------|--|
| | | |
| TF, Or N ₂ O that was sent to another facility | for transformation | |
| " to activate column 'D' for a comprehensive list or select "Other F-GHG er the information required in columns 'F', 'G', 'H', and 'I') | | |
| [98.416(a)(3)] | | |
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16(a)(14):

| US State/Territory | US 5-Digit Zip Code |
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| Other F-GHG: | CASRN: |
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| | |
| If an F-GHG or chemical is not listed, search | |
| Chemical Abstracts Service registry number cannot be found via SRS search, add the | |
| Same so really via ente sourch, and a | [98.416(a)(1)] |
| | |
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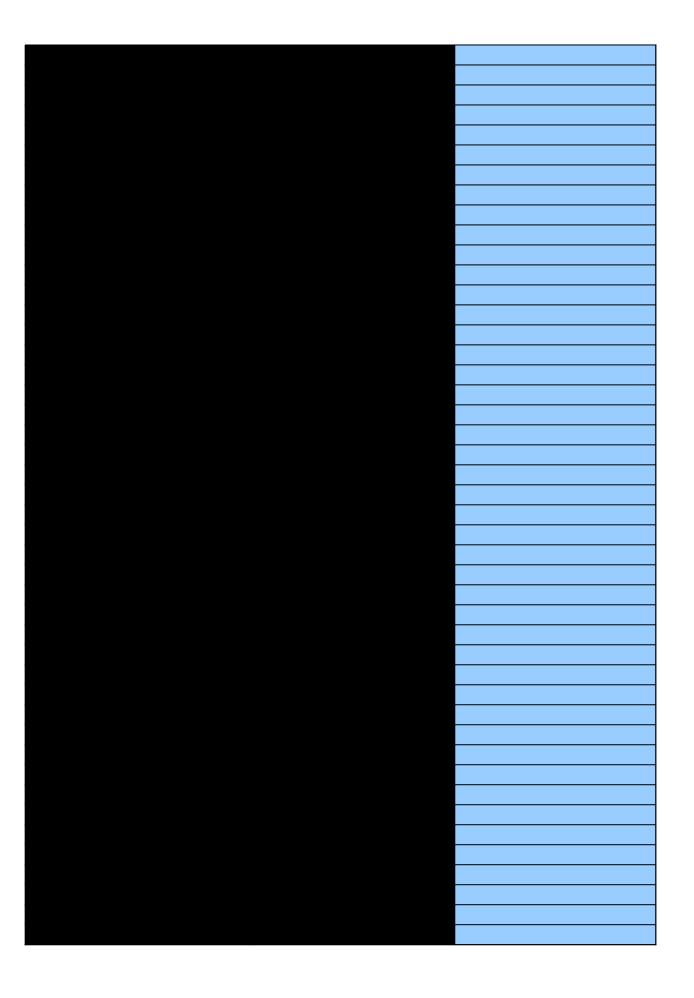


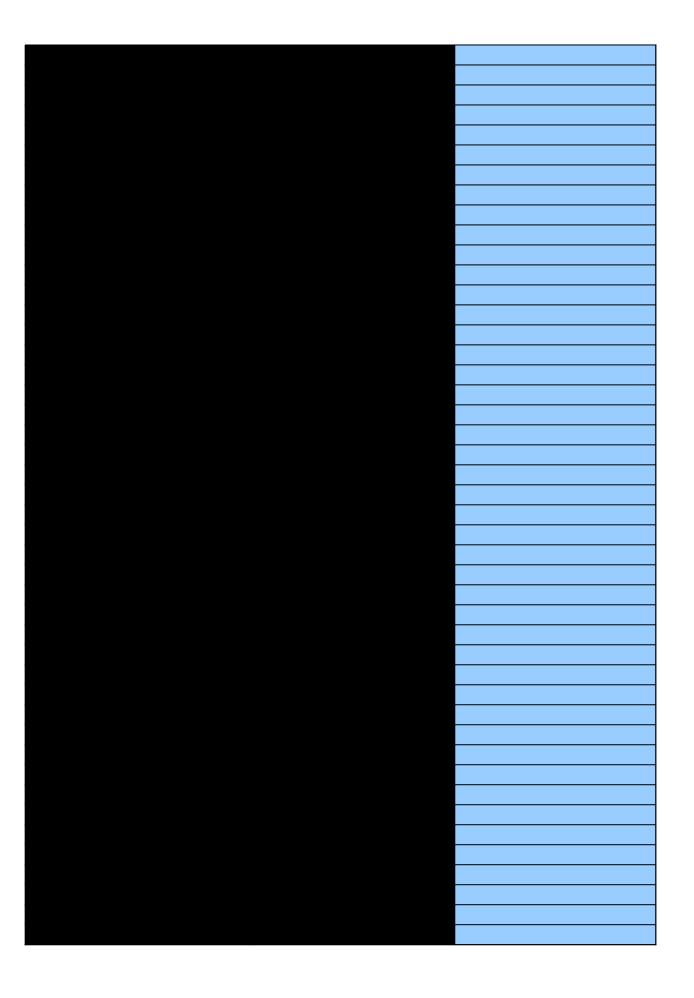




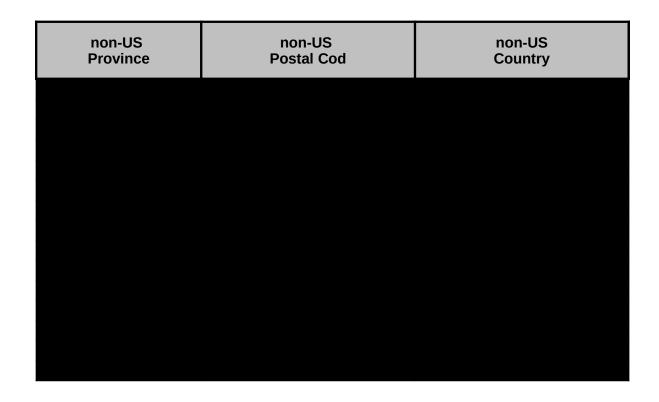
| Country | non-US Street Address | non-US City |
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| Chemical Formula: | |
|---|--|
| ' Services (SRS) by name and/or cal here. If an F-GHG constituent me and, if available, CASRN | Mass of the F-GHG, F-HTF, or N ₂ O sent to another facility for transformation (metric tons) [98.416(a)(5), 98.416(a)(14)] |
| | |











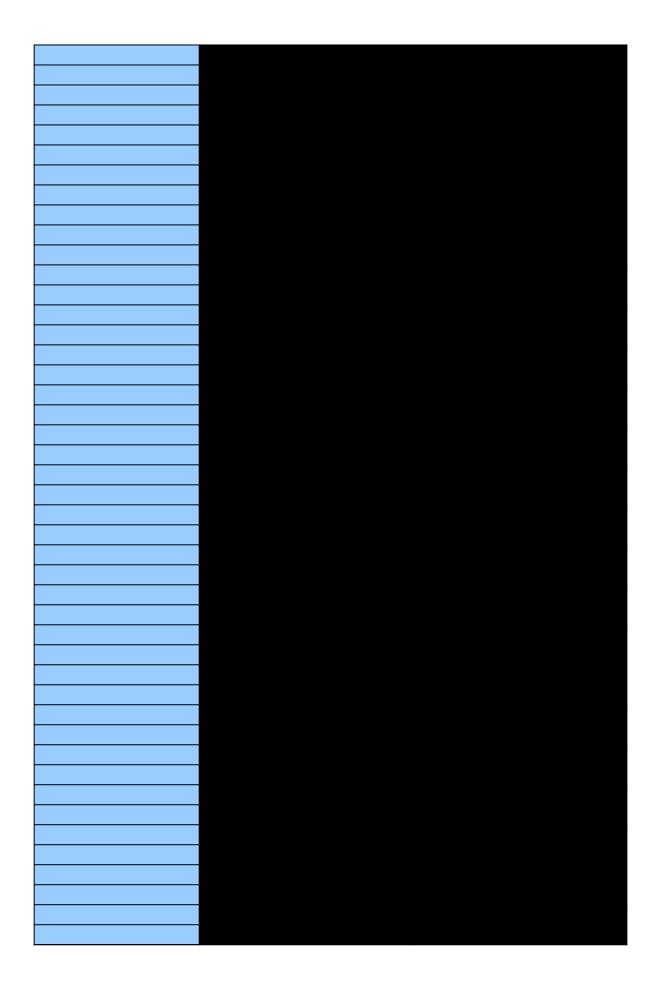
Was the mass determined using a missing data procedure procedure?

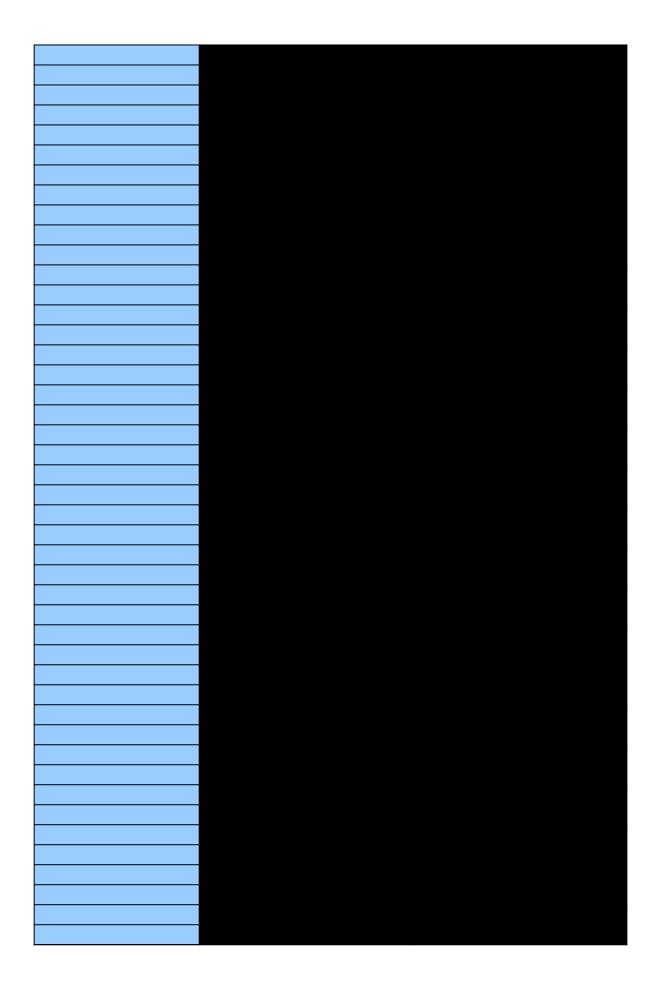
[98.416(a)(16)]

Was the mass determined using the missing data procedure (metric tons)

[98.416(a)(16)]

Number of hours that a missing data procedure was used to measure the mass fed into the transformation device





Reason a missing data procedure was used

[98.416(a)(16)]

Specify the "Other" measurement method used to determine mass (if applicable)

[98.416(a)(16)]

[98.416(a)(16)]







Subpart OO - Only for Facilities that Send F-GHGs and/or F-HT

| Worksheet Instructions: | | |
|---|---|--|
| Please identify the name and address Part 5b. | ss of the offsite destruction facility to which F-GH(| |
| Version: | | |
| R.07 | | |
| External Links: | | |
| Subpart OO Resources Page: | http://www2.epa.gov/ghgreporting/subpart-oo-s | |
| Reporting Form Help Content: | http://www.ccdsupport.com/confluence/display | |
| Optional Calculation Spreadsheet: | http://www.ccdsupport.com/confluence/display | |
| | | |
| Part 1- Facility Information | | |
| Part 2 - Production & Transformation | Process Information | |
| Part 2a - Production Process Information | | |
| Part 2b - Transformation Process Inf | ormation | |

Part 5a - Off-Site Destruction Facility Information

Instructions: Provide the following information for each facility to which any F-0

| | Facility Name | Is the Facility US based? |
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Part 5b - Off-Site Destruction Facility Shipment Information

Instructions: Provide the following information for each F-GHG or F-HTF productions (including fractions of a metric ton, if applicable).

| | | Gas |
|---|--|---|
| - | | |
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| - | | |
| | | |
| | | Previously produced F-GH(|
| - | | (if not listed, select "Search Extended List" |
| - | Facility Name | F-HTF not listed" and ent |
| - | , and the second se | |
| | [98.416(a)(15)] | |
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3 and/or F-HTF is sent in Part 5a. Then identify the specific F-GHG and/or F-HT suppliers-industrial-greenhouse-gases /help/Reporting+Form+Instructions /help/Optional+Calculation+Spreadsheet+Instructions Workbook Navigation: Part 3 - On-Site Destruction Information Part 4 - Off-Site Transformation Information

Fs Offsite for Destruction

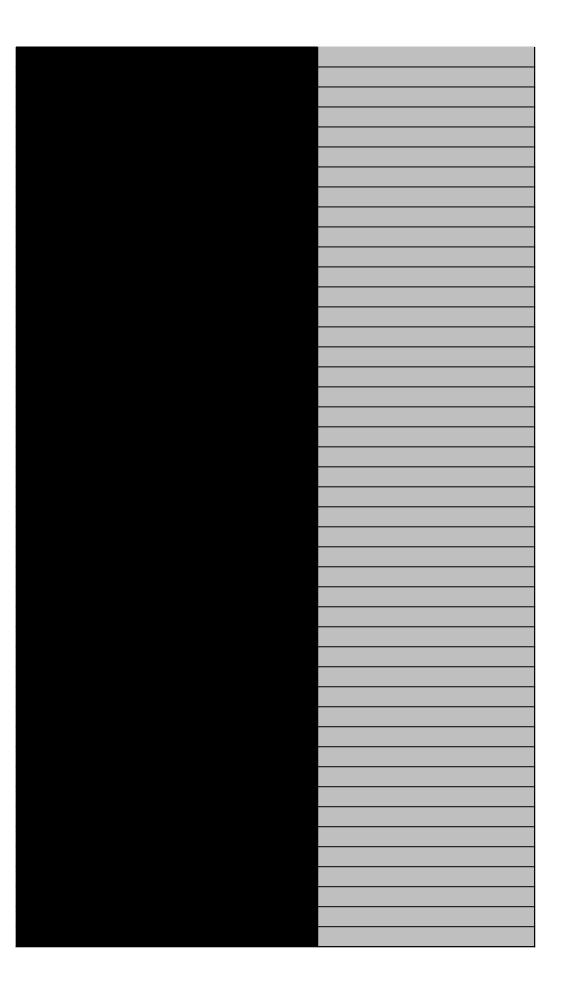
Part 5 - Off-Site Destruction Information

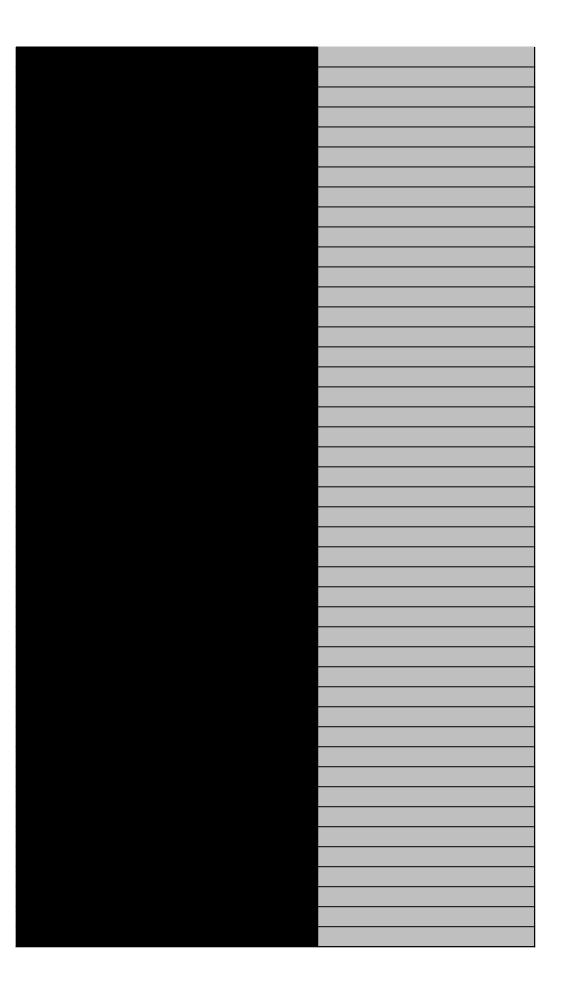
GHGs or F-HTFs were sent for destruction per 98.416(a)(15):

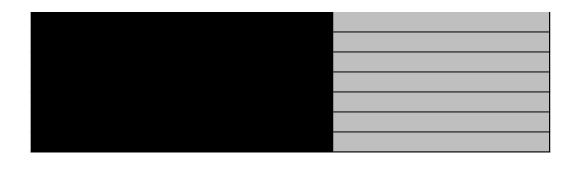
| US Street Address | US City |
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ced that was sent to the facility for destruction. Report all significant

| ses | CASRN |
|---|-----------------|
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| | |
| G or F-HTF that was sent to another facility | for destruction |
| ' to activate column 'D' for a comprehensive list or select "Other F-GHG or | |
| er the information required in columns 'F', 'G | |
| in the morning required in estamol 1, | -,, aa, |
| [98.416(a)(3)] | |
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10/4/2019

| F that are sent to each destruction facility in |
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| US State/Territory | US 5-Digit Zip Code |
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| Other F-GHG: | CASRN: |
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| | |
| If an F-GHG or chemical is not listed, sea | |
| Abstracts Service registry number (CASR) | |
| SRS search, add the F | -GHG by entering its name and, if a [98.416(a)(1)] |
| | [001.120(%)(±)] |







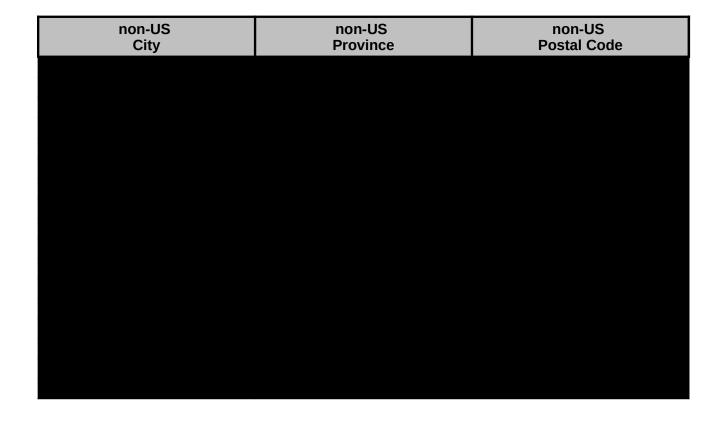
| Country | non-US Street Address |
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| Chemical Formula: | |
|---|---|
| ces (SRS) by name and/or Chemical GHG constituent cannot be found via /ailable, CASRN | Specify F-GHG or Category for Purposes of Estimating GWP (if necessary) [98.3(c)(5)(ii)] |
| | [30:3(0)(3)(11)] |
| | |
| | |











| Quantity of the F-GHG or F-HTF sent to that facility for destruction, except those removed as by-products or other waste (metric tons) [98.416(a)(15)] | Was this F-GHG or F-HTF removed from a production process as a BYPRODUCT or OTHER WASTE? | Was the mass determined using a missing data procedure? [98.416(a)(16)] |
|---|--|--|
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| Number of hours that a missing data procedure was used to measure the mass fed into the destruction device | Reason a missing data procedure was used |
|--|--|
| [98.416(a)(16)] | [98.416(a)(16)] |
| | |
| | missing data procedure was used to measure the mass fed into the destruction device |







Method used to estimate the missing data

[98.416(a)(16)]

Specify the
"Other"
measurement
method used to
determine mass
(if applicable)

[98.416(a)(16)]







Listing of f-GHGs for Use in Subpart OO Producers Form

The following F-GHGs are listed only by name in the F-GHG pick lists on the preceding tabs. The f-GHGs below are presented in the same order as in the pick lists. **Use Ctrl+F to search this list by name or CASRN**. Once you have identified the F-GHG please note the F-GHG name used in this Inputs Form and its location within the pick list so that you can more easily locate it in the pick lists.

Chemical Name

Nitrous Oxide

Sulfur hexafluoride

Trifluoromethyl sulphur pentafluoride

Nitrogen trifluoride

PFC-14 (Perfluoromethane)

PFC-116 (Perfluoroethane)

PFC-218 (Perfluoropropane)

Perfluorocyclopropane

PFC-3-1-10 (Perfluorobutane)

Perfluorocyclobutane

PFC-4-1-12 (Perfluoropentane)

PFC-5-1-14 (Perfluorohexane, FC 72)

PFC-6-1-12

PFC-7-1-18

PFC-9-1-18

PFPMIE (HT-70)

Perfluorodecalin (cis)

Perfluorodecalin (trans)

Octafluorotetrahydrofuran

FC-3283/FC-8270 (Perfluorotripropylamine)

FC-3284 (Perfluoromethylmorpholine)

FC-40/FC-43 (Perfluorotributylamine (PTBA))

FC-770 (Perfluoroisopropylmorpholine)

HT-55

HT-90

HT-110

HT-135

HFC-23

HFC-32

HFC-41

HFC-125

HFC-134

HFC-134a

HFC-143

HFC-143a

HFC-152

HFC-152a

HFC-161

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HFC-227ca
HFC-227ea
HFC-236cb
HFC-236ea
HFC-236fa
HFC-245ca
HFC-245cb
HFC-245ea
HFC-245eb
HFC-245fa
HFC-263fb
HFC-272ca
HFC-329p
HFC-365mfc
HFC-43-10mee
1,1,1,2,2,3,3-Heptafluoro-3-(1,2,2,2-tetrafluoroethoxy)-propane
1,1,2,2-Tetrafluoro-1-(fluoromethoxy)ethane
1,1,2,2-Tetrafluoro-3-methoxy-propane; Methyl 2,2,3,3-tetrafluoropropyl ether
1,1,2-Trifluoro-2-(trifluoromethoxy)-ethane
1,1,3,3,4,4,6,6,7,7,9,9,10,10,12,12,13,13,15,15-eicosafluoro-2,5,8,11,14-Pentaoxapentadecane
1-Ethoxy-1,1,2,2,3,3,3-heptafluoropropane
1-Ethoxy-1,1,2,3,3,3-hexafluoropropane
2-Chloro-1,1,2-trifluoro-1-methoxyethane
2-Ethoxy-3,3,4,4,5-pentafluorotetrahydro-2,5-bis[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-furan
Difluoro(fluoromethoxy)methane
Difluoro(methoxy)methane
Fluoro(fluoromethoxy)methane
Fluoro(methoxy)methane
HCFE-235ca2 (Enflurane)
Isoflurane (HCFE-235da2)
HFE-125
HFE-134
HFE-143a
HFE-227ea
HFE-236ca
HFE-236ca12 (HG-10)
Desflurane (HFE-236ea2)
HFE-236fa
HFE-245cb2
HFE-245fa1
HFE-245fa2
HFE-254cb2
HFE-263fb2
HFE-263m1; R-E-143a
HFE-329mcc2
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HFE-329me3
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HFE-338mcf2

HFE-338mmz1

HFE-338pcc13 (HG-01)

HFE-347mcc3

HFE-347mcf2

HFE-347mmy1

Sevoflurane

HFE-347pcf2

HFE-356mec3

HFE-356mff2

HFE-356mmz1

HFE-356pcc3

in E obopece

HFE-356pcf2

HFE-356pcf3

HFE-365mcf2

HFE-365mcf3

HFE-374pc2

HFE-43-10pccc (H-Galden 1040x)

HFE-449sl, (HFE-7100) Isomer blend

HFE-569sf2, (HFE-7200) Isomer blend

HG'-01

HG'-02

HG-02

HG'-03

HG-03

HG-20

HG-21

HG-30

Trifluoro(fluoromethoxy)methane

HFE-7300 (1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethyl-pentane)

HFE-7500 (3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-trifluoromethyl-hexane)

Trifluoromethyl formate

Perfluoroethyl formate

1,2,2,2-Tetrafluoroethyl formate

Perfluorobutyl formate

Perfluoropropyl formate

1,1,1,3,3,3-Hexafluoropropan-2-yl formate

2,2,2-Trifluoroethyl formate

3,3,3-Trifluoropropyl formate

Methyl 2,2,2-trifluoroacetate

1,1-Difluoroethyl 2,2,2-trifluoroacetate

Difluoromethyl 2,2,2-trifluoroacetate

2,2,2-Trifluoroethyl 2,2,2-trifluoroacetate

Methyl 2,2-difluoroacetate

Perfluoroethyl acetate

Trifluoromethyl acetate

Perfluoropropyl acetate

Perfluorobutyl acetate

Ethyl 2,2,2-trifluoroacetate

Methyl carbonofluoridate

1,1-Difluoroethyl carbonofluoridate

Bis(trifluoromethyl)-methanol

(Octafluorotetramethy-lene)hydroxymethyl group

2,2,3,3,3-pentafluoropropanol

2,2,3,3,4,4,4-Heptafluorobutan-1-ol

2,2,2-Trifluoroethanol

2,2,3,4,4,4-Hexafluoro-1-butanol

2,2,3,3-Tetrafluoro-1-propanol

2.2-Difluoroethanol

2-Fluoroethanol

4,4,4-Trifluorobutan-1-ol

PFC-1114; TFE

PFC-1216; Dyneon HFP

PFC C-1418

Perfluorobut-2-ene

Perfluorobut-1-ene

Perfluorobuta-1,3-diene

HFC-1132a; VF2

HFC-1141; VF

(E)-HFC-1225ye

(Z)-HFC-1225ye

HCFC-1233zd(E)

HFC-1234yf; HFO-1234yf

HFC-1234ze(E)

HFC-1234ze(Z)

HFC-1243zf; TFP

(Z)-HFC-1336

HFC-1345zfc

Capstone 42-U

Capstone 62-U

Capstone 82-U

PMVE; HFE-216

Fluoroxene

3,3,3-Trifluoro-propanal

Novec 649/1230, FK 5-1-12, perfluoro(2-methyl-3-pentanone)

3,3,4,4,5,5,6,6,7,7,7-Undecafluoroheptan-1-ol

3,3,3-Trifluoropropan-1-ol

3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Pentadecafluorononan-1-ol

3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-Nonadecafluoroundecan-1-ol

Trifluoroiodomethane Dibromodifluoromethane (Halon 1202) 2-Bromo-2-chloro-1,1,1-trifluoroethane (Halon-2311 / Halothane) Perfluoroethyl vinyl ether Galden ZT-85 Galden ZT-130 Galden ZT-150 Perfluorosolv PFS-2 DET HT-80 D05 Perfluoropropyl vinyl ether 2H-perfluoro(5-methyl-3,6-dioxanonane) Trifluoromethanesulfonyl fluoride Carbonic difluoride Trifluoroacetyl fluoride Perfluorodiethyl ether Perfluorobutanesulfonyl fluoride Perfluoropropionyl fluoride Perfluorobutyliodide Hexafluorooxetane Hexafluoropropylene oxide Propanoic Acid, 3-[1-[Difluoro [(Trifluoroethenyl oxy] Methyl]-1,2,2,2-Tetrafluoroethoxy] -2,2,3,3-Tetrafluoro-, Me Pentafluoro(trifluoromethoxy)-ethane 1,1,1,3,3,5,5,7,7,9,9,11,11-tridecafluoro-2,4,6,8,10-pentaoxadodecan-12-oyl fluoride 2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoyl fluoride C5F13N Perfluorocyclohexane HEPTAFLUOROPROPYL TRIFLUOROMETHYL ETHER Perfluoro-2-(2-Fluorosulfonylethoxy) Propyl Vinyl Ether Perfluoro(methylcyclopropane) FC-70 LS-240 D03 DO2-TS HS-240 HS-260 HT-170 HT-200 HT-230 HT-270 LS-200 LS-215 LS-260 LS-230

Other F-GHG or F-HTFs not listed

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