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| --- | --- |
| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | MG-09F  Part 70 Manufacturing General Permit Requirements: Stratospheric Ozone Protection (40 CFR § 82)  Air Quality Permit Program  *Doc Type: Permit Application* |

**Refer to the *Handbook and application instructions* for the Part 70 Manufacturing General Permit for form instructions.**

## **Facility information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **a)** AQ Facility ID number: | |  | **b)** Agency Interest ID number: |  |
| **c)** Facility name: |  | | | |

## **Applicable requirement determination**

The 1990 Clean Air Act Amendments, Sections 601-618 and federal regulations located in 40 CFR § 82 regulate ozone depleting substances and require a phase out of their use. Review the attached list of ozone depleting chemicals, Tables F.1 and F.2.

**1)** After reviewing Tables F.1 and F.2, check one of the following:

NO, my facility **does not** manufacture, sell, distribute or use any chemicals from the list, and the 1990 Clean Air Act, as amended, §§ 601-618 do not apply to my facility; return toForm **MG-09**, question 6b.

YES, my facility **does** manufacture, sell, distribute or use one or more of the chemicals from the list. Read sections 601-608 of the 1990 Clean Air Act Amendments and 40 CFR § 82 to determine all the requirements that apply to your facility, then go to question 2.

**2)** Indicate below which chemicals you manufacture, sell, distribute or use; whether the chemical is Class I or Class II; and what chemical your facility will be using to replace the phased out chemical. Include additional pages if necessary:

|  |  |  |  |
| --- | --- | --- | --- |
| **2a)** | **2b)** | **2c)** | **2d)** |
| **Chemical  name:** | **Class type:** | **CAS  number:** | **Replacement chemical  (after phase out):** |
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**3)** Return toform **MG-09**, question 6b.

## **Table F.1**

**Class I Ozone Depleting Chemicals**

|  |  |  |
| --- | --- | --- |
| **1. Group I:** | **Chemical** | **CAS number** |
|  | CFCl3-Trichlorofluoromethane (CFC-11) | 75-69-4 |
|  | CF2Cl2-Dichlorodifluoromethane (CFC-12) | 75-71-8 |
|  | C2F3Cl2-Trichlorotrifluoroethane (CFC-113) | 76-13-1 |
|  | C2F4Cl3-Dichlorotetrafluoroethane (CFC-114) | 76-14-2 |
|  | C2F5Cl-Monochloropentafluoroethane (CFC-115) | 76-15-3 |
|  | All isomers of the above chemicals |  |
| **2. Group II:** | **Chemical** | **CAS number** |
|  | CF2ClBr-Bromochlorodifluoromethane (Halon-1211) | 421-01-2 |
|  | CF3Br-Bromotrifluoroethane (Halon-1301) | 75-63-8 |
|  | C2F4Br2-Dibromotetrafluoroethane (Halon-2402) | 124-73-2 |
|  | All isomers of the above chemicals |  |
| **3. Group III:** | **Chemical** | **CAS number** |
|  | CF3Cl-Chlorotrifluoromethane (CFC-13) | 75-72-9 |
|  | C2FCl5 (CFC-111) | 954-56-3 |
|  | C2F2Cl4 (CFC-112) | 76-12-0 |
|  | C3FCl7 (CFC-211) | 422-78-6 |
|  | C3F2Cl6 (CFC-212) | 3182-26-1 |
|  | C3F3Cl5 (CFC-213) | 2354-06-5 |
|  | C3F4Cl4 (CFC-214) | 29255-31-0 |
|  | C3F5Cl3 (CFC-215) | 4259-43-2 |
|  | C3F6Cl2 (CFC-216) | 661-97-2 |
|  | C3F7Cl (CFC-217) | 422-86-6 |
|  | All isomers of the above chemicals |  |
| **4. Group IV:** | **Chemical** | **CAS number** |
|  | CCl4-Carbon Tetrachloride | 56-23-5 |
| **5. Group V:** | **Chemical** | **CAS number** |
|  | C2H3Cl3 -1,1,1 Trichloroethane (Methyl chloroform) | 71-55-6 |
|  | All isomers of the above chemical except 1,1,2-trichloroethane | 79-00-5 |
| **6. Group VI:** | **Chemical** | **CAS number** |
|  | CH3Br - Bromomethane (Methyl Bromide) | 74-83-9 |

| **7. Group VII:** | **Chemical** | **CAS number** |
| --- | --- | --- |
|  | CHFBr2 |  |
|  | CHF2Br (HBFC-22B1) |  |
|  | CH2FBr |  |
|  | C2HFBr4 |  |
|  | C2HF2Br3 |  |
|  | C2HF3Br2 |  |
|  | C2HF4Br |  |
|  | C2H2FBr3 |  |
|  | C2H2F2Br2 |  |
|  | C2H2F3Br |  |
|  | C2H3FBr2 | **358-97-4** |
|  | C2H3F2Br |  |
|  | C2H4FBr |  |
|  | C3HFBr4 |  |
|  | C3HF2Br3 |  |
|  | C3HF3Br4 |  |
|  | C3HF4Br3 |  |
|  | C3HF5Br2 |  |
|  | C3HF6Br |  |
|  | C3H2FBr5 |  |
|  | C3H2F2Br4 |  |
|  | C3H2F3Br3 |  |
|  | C3H2F4Br2 |  |
|  | C3H2F3Br |  |
|  | C3H3FBr4 |  |
|  | C3H3F2Br3 |  |
|  | C3H3F3Br2 |  |
|  | C3H3F4Br |  |
|  | C3H4FBr3 |  |
|  | C3H4F2Br2 |  |
|  | C3H4F3Br |  |
|  | C3H5FBr2 |  |
|  | C3H5F2Br |  |
|  | C3H6FBr |  |
| **8. Group VIII:** | CH2BrCl (Chlorobromomethane) |  |

## **Table F.2**

**Class II Ozone depleting chemicals**

|  | **Chemical** | **CAS Number** |
| --- | --- | --- |
| HCFC-21 | CHFCl2 - dichlorofluoromethane | 75-43-4 |
| HCFC-22 | CHF2Cl - chlorodifluoromethane | 75-43-6 |
| HCFC-31 | CH2ClF - chlorofluoromethane | 593-70-4 |
| HCFC-121 | C2HFCl4 - tetrachlorofluoroethane | 354-14-3 |
| HCFC-122 | C2HF2Cl3 - trichlorodifluoroethane | 354-21-2 |
| HCFC-123 | C2HF3Cl2 - dichlorotrifluoroethane | 306-83-2 |
| HCFC-124 | C2HClF4 - chlorotetrafluoroethane | 2837-89-0 |
| HCFC-131 | C2H2FCl3 - trichlorofluoroethane | 359-28-4 |
| HCFC-132b | C2H2F2Cl2 - dichlorodifluoroethane | 1649-08-7 |
| HCFC-133a | C2H2F3Cl - chlorotrifluoroethane | 75-88-7 |
| HCFC-141b | C2H3FCl2 - dichlorofluoroethane | 1717-00-6 |
| HCFC-142b | C2H3ClF2 - chlorodifluoroethane | 75-68-3 |
| HCFC-151 | C2H4ClF - 1-chloro-1-fluoroethane | 1615-75-4 |
| HCFC-221 | C3HCl6F - hexachlorofluoropropane | 422-26-4 |
| HCFC-222 | C3HF2Cl5 - pentachlorodifluoropropane | 422-49-1 |
| HCFC-223 | C3HF3Cl4 - tetrachlorotrifluoropropane | 422-52-6 |
| HCFC-224 | C3HF4Cl3 - trichlorotetrafluoropropane | 422-54-8 |
| HCFC-225ca | C3HF5Cl2 - dichloropentafluoropropane | 422-56-0 |
| HCFC-225cb | C3HF5Cl2 - dichloropentafluoropropane | 507-55-1 |
| HCFC-226 | C3HF6Cl - chlorohexafluoropropane | 431-87-8 |
| HCFC-231 | C3H2FCl5 - pentachlorofluoropropane | 421-94-3 |
| HCFC-232 | C3H2F2Cl4 - tetrachlorodifluoropropane | 460-89-9 |
| HCFC-233 | C3H2F3Cl3 - trichlorotrifluoropropane | 7125-84-0 |
| HCFC-234 | C3H2F4Cl2 - dichlorotetrafluoropropane | 425-94-5 |
| HCFC-235 | C3H2F5Cl - chloropentafluoropropane | 460-92-4 |
| HCFC-241 | C3H3FCl4 - tetrachlorofluoropropane | 666-27-3 |
| HCFC-242 | C3H3F2Cl3 - trichlorodifluoropropane | 460-63-9 |
| HCFC-243 | C3H3F3Cl2 - dichlorotrifluoropropane | 460-69-5 |
| HCFC-244 | C3H3F4Cl - chlorotetrafluoropropane | 134190-50-4 |
| HCFC-251 | C3H4FCl3 - trichlorofluoropropane | 421-41-0 |
| HCFC-252 | C3H4F2Cl2 - dichlorodifluoropropane | 819-00-1 |
| HCFC-253 | C3H4ClF3 - chlorotrifluoropropane | 460-35-5 |
| HCFC-261 | C3H5FCl2 - dichlorofluoropropane | 420-97-3 |
| HCFC-262 | C3H5F2Cl - chlorodifluoropropane | 421-02-3 |
| HCFC-271 | C3H6FCl - chlorofluoropropane | 430-55-7 |
|  | All isomers of the above chemicals |  |