



**Maryland**  
Department of  
the Environment

## Instructions for Maryland HFC Reduction Program: Product Manufacturer Notification

1. Fill out the form using Adobe Reader.
2. Submit your completed form to [christopher.wheeling@maryland.gov](mailto:christopher.wheeling@maryland.gov). Please direct all questions to this email.
3. This current page contains the instructions for completing pages 1 through 5.

| 1. Type of Notification                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Initial Notification                                                                                                     | Check this box for initial notification. Check this box only if this form is submitted before the restriction date applicable to the end-use you are reporting. Initial notification is due to MDE by <b>January 31, 2021</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Status Update Notification for Prohibitions                                                                              | Check this box for status update notification. Status update notification is due to MDE by <b>April 1</b> each year until products and equipment no longer contain the prohibited substance(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2. Manufacturer Information                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Name                                                                                                                     | Manufacturer name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Address/City/State/Postal Code/Country                                                                                   | Manufacturer address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3. Manufacturer Representative Information                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Name                                                                                                                     | Name of individual signing this form                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Organization                                                                                                             | Signer's employer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mailing Address/City/State/Postal Code/Country                                                                           | Signer's address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Phone Number (Ext)                                                                                                       | Signer's phone number, including country code if outside the U.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Email Address                                                                                                            | Signer's email address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4. Product Information                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| End-use                                                                                                                  | Go to pages 2-5. If you need to provide additional information, use "Notes" section.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Are any products within this end-use sold, leased, rented, installed, used, or manufactured in Maryland by manufacturer? | Check "yes" or "no" for all prohibited substitutes in use, intended for use, or embedded in any product within the applicable end-use manufactured as of the date of this notification.<br><b>For initial notification:</b> <ol style="list-style-type: none"><li>1. Fill out page 2. Check "yes" or "no" for each end-use.</li><li>2. If yes, fill out related table for each end-use (pages 3-5).</li><li>3. If no, you're done.</li></ol> <b>For status update notification:</b> <ol style="list-style-type: none"><li>1. Fill out page 2. Check "yes" or "no" for each end-use.</li><li>2a. If no, check "no prohibited substitutes used" at the top of each end-use (pages 3-5). <b>OR</b></li><li>2b. If yes, fill out related table for each end-use (pages 3-5).</li></ol> |
| 5. Certification Statement and Signature                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Certification Statement                                                                                                  | Read the certification statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Representative Signature                                                                                                 | Sign the form. The signer must be the individual listed in section 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Representative Name                                                                                                      | Type the name of the individual signing the form. This must be the individual listed in section 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Date                                                                                                                     | Date the form was signed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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Maryland  
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# Maryland HFC Reduction Program: Product Manufacturer Notification

If you have questions, email [christopher.wheeling@maryland.gov](mailto:christopher.wheeling@maryland.gov).

## 1. Type of Notification

Initial Notification

Status Update Notification for Prohibitions Taking Effect in (check one):      2021      2022      2023      2024

## 2. Manufacturer Information

Name

Address

City

State/Province/Region

Postal Code

Country

## 3. Manufacturer Representative Information

First Name

Last Name

Organization

Mailing Address

City

State/Province/Region

Postal Code

Country

Phone Number (Ext)

Email Address

## 4. Equipment/Product Information (pages 2-5)

## 5. Certification Statement and Signature

I certify that:

- I am authorized by an agreement binding on the manufacturer to provide this notification on behalf of the manufacturer.
- I have all the necessary authority to carry out my duties and responsibilities on behalf of the manufacturer and that the manufacturer shall be fully bound by my representations, actions, inactions, or submissions.
- The manufacturer shall be bound by any order issued to me or to the manufacturer by MDE, any representative of MDE, or a court regarding the manufacturer.

\_\_\_\_\_  
Representative Signature

\_\_\_\_\_  
Representative Name

\_\_\_\_\_  
Date

| End-Use                                                         | Are any products within this end-use sold, leased, rented, installed, used, or manufactured in Maryland by the manufacturer as of the date of this notification? |    |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>Aerosol Propellants</b>                                      |                                                                                                                                                                  |    |
| Aerosol Propellants                                             | YES                                                                                                                                                              | NO |
| <b>Air Conditioning</b>                                         |                                                                                                                                                                  |    |
| Centrifugal Chillers (new)                                      | YES                                                                                                                                                              | NO |
| Positive Displacement Chillers (new)                            | YES                                                                                                                                                              | NO |
| <b>Refrigeration</b>                                            |                                                                                                                                                                  |    |
| Cold Storage Warehouse (new)                                    | YES                                                                                                                                                              | NO |
| Household refrigerators and freezers (new)                      | YES                                                                                                                                                              | NO |
| Household refrigerators and freezers-compact (new)              | YES                                                                                                                                                              | NO |
| Household refrigerators and freezers-built in appliances (new)  | YES                                                                                                                                                              | NO |
| Supermarket Systems (Retrofit)                                  | YES                                                                                                                                                              | NO |
| Supermarket Systems (New)                                       | YES                                                                                                                                                              | NO |
| Remote Condensing Units (Retrofit)                              | YES                                                                                                                                                              | NO |
| Remote Condensing Units (New)                                   | YES                                                                                                                                                              | NO |
| Stand-Alone Units (Retrofit)                                    | YES                                                                                                                                                              | NO |
| Stand-Alone Medium Temperature Units (New)                      | YES                                                                                                                                                              | NO |
| Stand-Alone Low Temperature Units (New)                         | YES                                                                                                                                                              | NO |
| Refrigerated food processing and dispensing equipment (new)     | YES                                                                                                                                                              | NO |
| Vending Machines (Retrofit)                                     | YES                                                                                                                                                              | NO |
| Vending Machines (New)                                          | YES                                                                                                                                                              | NO |
| <b>Foams</b>                                                    |                                                                                                                                                                  |    |
| Rigid Polyurethane and Polyisocyanurate Laminated Boardstock    | YES                                                                                                                                                              | NO |
| Flexible Polyurethane                                           | YES                                                                                                                                                              | NO |
| Integral Skin Polyurethane                                      | YES                                                                                                                                                              | NO |
| Polystyrene Extruded Sheet                                      | YES                                                                                                                                                              | NO |
| Phenolic Insulation Board and Bunstock                          | YES                                                                                                                                                              | NO |
| Rigid Polyurethane Slabstock and Other                          | YES                                                                                                                                                              | NO |
| Rigid Polyurethane Appliance Foam                               | YES                                                                                                                                                              | NO |
| Rigid Polyurethane Commercial Refrigeration and Sandwich Panels | YES                                                                                                                                                              | NO |
| Polyolefin                                                      | YES                                                                                                                                                              | NO |
| Rigid Polyurethane Marine Flotation Foam                        | YES                                                                                                                                                              | NO |
| <b>Foams</b>                                                    |                                                                                                                                                                  |    |
| Polystyrene Extruded Boardstock and Billet (XPS)                | YES                                                                                                                                                              | NO |
| Rigid Polyurethane (PU) high-pressure two-component spray foam  | YES                                                                                                                                                              | NO |
| Rigid Polyurethane (PU) low-pressure two-component spray foam   | YES                                                                                                                                                              | NO |
| Rigid Polyurethane (PU) one-component foam sealants             | YES                                                                                                                                                              | NO |
|                                                                 |                                                                                                                                                                  |    |
|                                                                 |                                                                                                                                                                  |    |

## Aerosol Propellants

| No Prohibited Substance Used    |  |
|---------------------------------|--|
| Prohibited Substance            |  |
| HFC-125                         |  |
| HFC-134a                        |  |
| HFC-227ea                       |  |
| Blends of HFC-227ea and HFC134a |  |

## Air Conditioning

| Prohibited Substance                      | Centrifugal Chillers (new)   | Positive Displacement Chillers (new) |
|-------------------------------------------|------------------------------|--------------------------------------|
|                                           | No Prohibited Substance Used |                                      |
| FOR12A                                    |                              |                                      |
| FOR12B                                    |                              |                                      |
| HFC-134a                                  |                              |                                      |
| HFC-227ea                                 |                              |                                      |
| HFC-236fa                                 |                              |                                      |
| HFC-245fa                                 |                              |                                      |
| KDD6                                      |                              |                                      |
| R-125/ 134a/ 600a (28.1/70/1.9)           |                              |                                      |
| R-125/ 290/ 134a/ 600 (55.0/1.0/42.5/1.5) |                              |                                      |
| R-404A                                    |                              |                                      |
| R-407C                                    |                              |                                      |
| R-410A                                    |                              |                                      |
| R-410B                                    |                              |                                      |
| R-417A                                    |                              |                                      |
| R-421A                                    |                              |                                      |
| R-422B                                    |                              |                                      |
| R-422C                                    |                              |                                      |
| R-422D                                    |                              |                                      |
| R-423A                                    |                              |                                      |
| R-424A                                    |                              |                                      |
| R-434A                                    |                              |                                      |
| R-437A                                    |                              |                                      |
| R-438A                                    |                              |                                      |
| R-507A                                    |                              |                                      |
| RS-44 (2003 composition)                  |                              |                                      |
| SP34E                                     |                              |                                      |
| THR-03                                    |                              |                                      |

# Refrigeration

| Prohibited Substance                      | Cold Storage Warehouse (new) | Household refrigerators and freezers (new) | Household refrigerators and freezers-compact (new) | Household refrigerators and freezers-built in appliances (new) | Supermarket Systems (Retrofit) | Supermarket Systems (New) | Remote Condensing Units (Retrofit) | Remote Condensing Units (New) | Stand-Alone Units (Retrofit) | Stand-Alone Medium Temperature Units (New) | Stand-Alone Low Temperature Units (New) | Refrigerated food processing and dispensing equipment (new) | Vending Machines (Retrofit) | Vending Machines (New) |
|-------------------------------------------|------------------------------|--------------------------------------------|----------------------------------------------------|----------------------------------------------------------------|--------------------------------|---------------------------|------------------------------------|-------------------------------|------------------------------|--------------------------------------------|-----------------------------------------|-------------------------------------------------------------|-----------------------------|------------------------|
| <b>No Prohibited Substance Used</b>       |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| FOR12A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| FOR12B                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| HFC-134a                                  |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| HFC-227ea                                 |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| HFC-236fa                                 |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| KDD6                                      |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-125/ 290/ 134a/ 600 (55.0/1.0/42.5/1.5) |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-404A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-407A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-407B                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-407C                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-407F                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-410A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-410B                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-417A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-421A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-421B                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-422A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-422B                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-422C                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-422D                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-423A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-424A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-426A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-428A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-434A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-437A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-438A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| R-507A                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| RS-24 (2002 formulation)                  |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| RS-44 (2003 formulation)                  |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| SP34E                                     |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |
| THR-03                                    |                              |                                            |                                                    |                                                                |                                |                           |                                    |                               |                              |                                            |                                         |                                                             |                             |                        |

# Foams

| Prohibited Substance                                                                      | Rigid Polyurethane and Polyisocyanurate Laminated Boardstock | Flexible Polyurethane | Integral Skin Polyurethane | Polystyrene Extruded Sheet | Phenolic Insulation Board and Bunstock | Rigid Polyurethane Slabstock and Other | Rigid Polyurethane Appliance Foam | Rigid Polyurethane Commercial Refrigeration and Sandwich Panels | Polyolefin | Rigid Polyurethane Marine Flotation Foam | Polystyrene Extruded Boardstock and Billet (XPS) | Rigid Polyurethane (PU) high-pressure two-component spray foam | Rigid Polyurethane (PU) low-pressure two-component spray foam | Rigid Polyurethane (PU) one-component foam sealants |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------|----------------------------|----------------------------|----------------------------------------|----------------------------------------|-----------------------------------|-----------------------------------------------------------------|------------|------------------------------------------|--------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------|
| No Prohibited Substance Used                                                              |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| HFC134a                                                                                   |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| HFC245fa and blends thereof                                                               |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| HFC365mfc and blends thereof                                                              |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| Blends of HFC365mfc with at least 4 percent HFC245fa                                      |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| Commercial blends of HFC365mfc with 7 to 13 percent HFC-227a and the remainder HFC-365mfc |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| Formacel TI                                                                               |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| Formacel B                                                                                |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |
| Formacel Z-6                                                                              |                                                              |                       |                            |                            |                                        |                                        |                                   |                                                                 |            |                                          |                                                  |                                                                |                                                               |                                                     |

# Notes