



## **Regulatory Technical Brief: Federal and State Global Warming Regulations for HFC 134a**

### **History:**

The aerosol industry moved to the use of HFC-134a propellant as a non-flammable alternative to Freon 22, which was being phased out due to ozone depleting potential. Since then, HFC-134a has been used for many applications that call for a non-flammable propellant, such as air dusters, electronic and electrical cleaners and non-flammable adhesives.

In 2016, the U.S. EPA published the **Significant New Alternatives Policy (SNAP)** rules that would have severely limited the use of HFC-134a to only uses it considered essential. The Federal SNAP rules were halted due to legal challenges and never became law. Since that time, several States have enacted their own rules that are similar to the EPA SNAP rule. California was the first to do so and other states have also followed suit.

### **Why are restrictions being imposed?**

The short answer is that the Global Warming Potential (GWP) of HFC-134a is significant and there are replacement gases available that have less environmental impact. The EU has banned most uses of HFC-134a.

### **What is our purpose in providing this information?**

This Technical Brief is intended to make sure that our Customers are aware of the rules restricting the use of HFC-134a so that measures can be taken to restrict sales where necessary.

Even for products that are allowed under the exempted uses, compliance actions in some states may be required. For example, some of the states require that 134a be listed on the product Safety Data Sheet (SDS) in Section 3. The State of Washington requires that 134a be included on the product label as well as the SDS.

The states of Colorado, Delaware, Maryland and Massachusetts require an explanation of the date coding system be submitted.



As other states adopt these rules, it will be necessary to stay informed of the requirements. Table 1 below is the current list of States and effective dates. Table 2 lists the exempted uses that are allowed for HFC-134a.

**Table 1: States with 134a Restrictions**

| State         | Status  | Aerosol Propellant Effective Date | Disclosure Requirement | Record Keeping Requirement |
|---------------|---|-----------------------------------|------------------------|----------------------------|
| California    | Effective   | 1/1/2019                          | No                     | No                         |
| Colorado      | Effective   | 1/1/2021                          | Yes                    | Yes                        |
| Connecticut   | Drafting Regulatory Language                        | TBD                               | TBD                    | TBD                        |
| Delaware      | Effective   | 9/1/2021                          | Yes                    | No                         |
| Maine         | Legislation Signed by Governor                      | 1/1/2022                          | No                     | Yes                        |
| Maryland      | Effective   | 1/1/2021                          | Yes                    | Yes                        |
| Massachusetts | Effective   | 1/1/2021                          | Yes                    | Yes                        |
| New Jersey    | Law Signed, Waiting for Regulatory Process to Start | 7/1/2020                          | Yes                    | TBD                        |
| New York      | Effective   | 1/1/2021                          | No                     | No                         |
| Oregon        | Proposed Legislation                                | 1/1/2022                          | TBD                    | TBD                        |
| Pennsylvania  | Drafting Regulatory Language                        | TBD                               | TBD                    | TBD                        |
| Rhode Island  | Effective August 1, 2021                            | 1/1/2022                          | Yes                    | No                         |
| Texas         | Proposed Legislation                                | 1/1/2023                          | TBD                    | TBD                        |
| Vermont       | Effective   | 1/1/2021                          | No                     | No                         |
| Virginia      | Effective June 1, 2021                              | 1/1/2022                          | Yes                    | Yes                        |
| Washington    | Effective   | 1/1/2020                          | Yes                    | No                         |

Table compiled 7/19/21 by Household and commercial Products Association.



**Table 2: Exempted Uses of 134a**

|          |  |
|----------|--|
| HFC-134a | <ul style="list-style-type: none"><li>• Cleaning products for removal of grease, flux and other soils from electrical equipment or electronics;</li><li>• Refrigerant flushes;</li><li>• Products for sensitivity testing of smoke detectors;</li><li>• Lubricants and freeze sprays for electrical equipment or electronics;</li><li>• Sprays for aircraft maintenance;</li><li>• Sprays containing corrosion preventive compounds used in the maintenance of aircraft, electrical equipment or electronics, or military equipment;</li><li>• Pesticides for use near electrical wires, in aircraft, in total release insecticide foggers, or in certified organic use pesticides for which EPA has specifically disallowed all other lower-GWP propellants;</li><li>• Mold release agents and mold cleaners;</li><li>• Lubricants and cleaners for spinnerettes for synthetic fabrics;</li><li>• Duster sprays specifically for removal of dust from photographic negatives, semiconductor chips, specimens under electron microscopes, and energized electrical equipment;</li><li>• Adhesives and sealants in large canisters;</li><li>• Document preservation sprays;</li><li>• FDA-approved MDIs for medical purposes;</li><li>• Wound care sprays;</li><li>• Topical coolant sprays for pain relief; and</li><li>• Products for removing bandage adhesives from skin.</li></ul> |
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## Where can more information about these regulations be found?

For the text of the rules, proposed rules or status of rulemaking it is necessary to go to each State’s website. The rules and documentation are generally located in the Air Quality Divisions tab/website.

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