



October 4, 2018

www.epa.gov/ozone/snap

#### **FACT SHEET**

### Protection of Stratospheric Ozone: New Listings for the Significant New Alternatives Policy Program in Refrigeration & Air Conditioning, Foam Blowing, Fire Suppression, Aerosols, and Solvent Cleaning Sectors

# **Action Listing New Acceptable Substitutes**

Section 612 of the Clean Air Act requires EPA to evaluate alternatives to ozone-depleting substances. EPA's Significant New Alternatives Policy (SNAP) program reviews substitutes in a comparative risk framework, using the same risk criteria for all SNAP decisions. Section 612 requires EPA to list as acceptable those substitutes that do not present a significantly greater risk to human health and the environment as compared with other substitutes that are currently or potentially available.

This determination of acceptability (Notice 34) expands EPA's SNAP list of acceptable substitutes, providing industry with more options in the refrigeration and air conditioning, foam blowing, fire suppression, aerosols, and cleaning solvents sectors.

#### Notice 34

#### What is included in the Notice?

 Eight additional acceptable substitutes that reduce overall risk to human health and environment

#### Which industrial sectors are included?

- Refrigeration & Air Conditioning
- Foam Blowing
- Fire Suppression
- Aerosols
- Cleaning Solvents

## What health and environmental impacts of substitutes does EPA evaluate?

 Atmospheric effects, toxicity, flammability, occupational and consumer health/safety, local air quality, and ecosystem effects

#### **SUMMARY OF ACCEPTABLE SUBSTITUTES**

| Sector                           | End-Use   | Substitutes              |
|----------------------------------|---|--------------------------|
| Refrigeration & Air Conditioning | Ice Skating Rinks (Retrofit)                                    | R-448A, R-449A, R-449B   |
|                                  | Ice Skating Rinks (New & Retrofit)                              | R-450A, R-513A           |
| Foam Blowing                     | Rigid Polyurethane and Polyisocyanurate<br>Laminated Boardstock | Acetone/Isopentane blend |
| Fire Suppression                 | Total Flooding  | Powdered Aerosol E       |
| Aerosols                         | Aerosol Solvents  | HFO-1336mzz(Z)           |
| Cleaning Solvents                | Electronics Cleaning, Metals Cleaning,<br>Precision Cleaning    | HFO-1336mzz(Z)           |