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www.epa.gov/ozone/snap

FACT SHEET

Protection of Stratospheric Ozone: New Listings for the Significant New Alternatives Policy Program in Refrigeration & Air Conditioning and Fire Protection Sectors

Action Listing New Acceptable Substitutes

Under section 612 of the Clean Air Act, EPA reviews substitutes in a comparative risk framework. To list new substitutes as acceptable, the Agency performs screening analysis of risks to human health and the environment from the use of various substitutes in different industrial and consumer uses that historically used ozone depleting substances.

This determination of acceptability expands EPA’s Significant New Alternatives Policy (SNAP) list of acceptable substitutes, adding options that have lower global warming potentials compared to those predominantly used today for the same uses.

SUMMARY OF ADDITIONAL ACCEPTABLE SUBSTITUTES

End-Use	Substitutes
Refrigeration & Air Conditioning	
Commercial Ice Machines (New & Retrofit)	R-449B
Refrigerated Transport (New & Retrofit)	R-449B
Retail Food Refrigeration – Refrigerated Food Processing and Dispensing Equipment (New & Retrofit)	R-448A, R-449A, and R-449B
Retail Food Refrigeration – Supermarket Systems, Remote Condensing Units, and Low-Temperature Stand-Alone Equipment (New & Retrofit)	R-449B
Fire Suppression and Explosion Protection	
Total Flooding	<i>Trans</i> -1-chloro-3,3,3-trifluoroprop-1-ene (Solstice™ FS)

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What is included in the Notice?

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

Which industrial sectors are included?

- Refrigeration & Air Conditioning
- Fire Protection

How are substitutes evaluated?

- Review characteristics including ozone depletion potential (ODP), global warming potential (GWP), toxicity, flammability, occupational and consumer health/safety, local air quality, and ecosystem effects