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FACT SHEET

SNAP Determination of Acceptability (Notice 39)

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 39) expands EPA's SNAP list of acceptable substitutes, providing industry with four options – three in the refrigeration and air conditioning sector and one in the foam blowing sector.

Notice 39

What is included in the Notice?

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

Which industrial sectors are included?

- Refrigeration & Air Conditioning
- Foam Blowing

What human 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

End-Use	Substitutes
Refrigeration & Air Conditioning	
Cold storage warehouses (retrofit only)	R-471A and R-480A
Industrial process refrigeration (retrofit only)	R-471A
Retail food refrigeration – Refrigerated food processing and dispensing equipment (retrofit only)	R-471A
Retail food refrigeration – Remote condensing units (retrofit only)	R-471A
Retail food refrigeration – Supermarket systems (retrofit only)	R-471A
Commercial ice machines (retrofit only)	R-480A
Positive displacement chillers (retrofit only)	R-480A
Refrigerated transport (retrofit only)	R-480A

End-Use	Substitutes
Water coolers (retrofit only)	R-480A
Residential and light commercial air conditioning and heat pumps – self-contained units (new only)	R-513A
Foam Blowing	
Extruded polystyrene (XPS): boardstock and billet	Extruded polystyrene (XPS) foam blowing agent blends of 0 to 90 percent HFO-1336mzz(Z), 0 to 90 percent HFO-1234ze(E), 0 to 75 percent HFC-152a, and 0 to 90 percent carbon dioxide (CO ₂)