

7. R-507

R-507, which consists of HFC-125 and HFC-143a, is acceptable as a substitute for CFC-12 in new household refrigerators.

None of this blend's constituents contains chlorine, and thus this blend poses no threat to stratospheric ozone. However, HFC-125 and HFC-143a have very high GWPs. EPA strongly encourages recycling and reclamation of this blend in order to reduce its direct global warming impact. Although HFC-143a is flammable, the blend is not. Leak testing has demonstrated that its composition never becomes flammable.

8. Hydrocarbon Blend B

Hydrocarbon Blend B is acceptable as a substitute for CFC-12 in retrofitted and new industrial process refrigeration systems.

This blend contains several hydrocarbons. It does not contribute to ozone depletion, nor does it contribute significantly to global warming. This blend contains flammable refrigerants, and EPA recommends but does not require that it only be used at industrial facilities which already manufacture or use hydrocarbons in the process stream. Such facilities are designed to comply with the safety standards required for managing flammable chemicals. Note that EPA only finds this product acceptable in this specific end-use

because other flammable refrigerants are acceptable and sufficient occupational safety rules exist to protect workers.

B. Foams

1. Rigid Polyurethane Appliance

a. Vacuum Panels—Vacuum panels are acceptable substitutes for CFC-11 blown rigid polyurethane appliance foam. The Agency has reviewed data on existing and proposed models of vacuum panels and believes that this alternative technology offers lower risk than continued use of CFC-11 blown polyurethane foam.

IV. Substitutes Pending Review

The Agency describes submissions as pending if data are incomplete or for which the 90-day review period is underway and EPA has not yet reached a final decision. For submissions that are incomplete, the Agency will contact the submitter to determine a schedule for providing the missing information if the Agency needs to extend the 90-day review period. EPA will use its authority under section 114 of the Clean Air Act to gather this information, if necessary. Any delay of the review period does not affect a manufacturer's ability to sell a product 90 days after notification of the Agency. Substitutes currently pending completion of review are listed in Appendix A.

V. Additional Information

Contact the Stratospheric Protection Hotline at 1-800-296-1996, Monday-Friday, between the hours of 10:00 a.m. and 4:00 p.m. (Eastern Standard Time).

For more information on the Agency's process for administering the SNAP program or criteria for evaluation of substitutes, refer to the SNAP final rulemaking published in the **Federal Register** on March 18, 1994 (59 FR 13044). **Federal Register** notices can be ordered from the Government Printing Office Order Desk (202) 783-3238; the citation is the date of publication. This Notice can also be retrieved electronically from EPA's Technology Transfer Network (TTN), Clean Air Act Amendment Bulletin Board. If you have a 1200 or 2400 bps modem, dial (919) 541-5742. If you have a 9600 bps modem, dial (919) 541-1447. For assistance in accessing this service, call (919) 541-5384.

List of Subjects in 40 CFR Part 82

Environmental protection, Administrative practice and procedure, Air pollution control, Reporting and recordkeeping requirements.

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Mary D. Nichols,

Assistant Administrator.

Note: The following appendix will not appear in the Code of Federal Regulations:

APPENDIX A.—SUMMARY OF ACCEPTABLE AND PENDING DECISIONS
REFRIGERANTS ACCEPTABLE SUBSTITUTES

| End-use | Substitute | Decision | Comments |
|--------------------------------------------------------------------------------------------|---------------------------|------------------|------------------------------------------------------------------------------------|
| CFC-12 Reciprocating Chillers (Retrofit & New Equipment/ NIKs). | R-401A | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| | R-401B | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| CFC-11, CFC-12, R-502 Industrial Process Refrigeration (Retrofit). | Hydrocarbon Blend B | Acceptable | This refrigerant is highly flammable. |
| CFC-11, CFC-12, R-502 Industrial Process Refrigeration (New Equipment/NIKS). | R-401A | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| | R-401B | Acceptable. | This refrigerant is highly flammable. |
| | Hydrocarbon Blend B | Acceptable | |
| CFC-13, R-13B1, R-503 Industrial Process Refrigeration (Retrofit and New Equipment/ NIKs). | CO ₂ | Acceptable. | |
| CFC-12, R-502 Cold Storage Warehouses (New Equipment/NIKS). | R-401A | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| | R-401B | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| CFC-12, R-500, R-502 Refrigerated Transport (New Equipment/NIKS). | R-401A | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |
| | R-401B | Acceptable | This substitute is subject to containment and recovery regulations covering HCFCs. |