



Renew Eco-Freezer 1583-10S

Product Description

Renew Eco-Freezer is formulated with new HFO-1234ze propellant, with a fraction of the global warming potential (GWP) of HFC-134a freeze sprays. HFO-1234ze has a GWP of 6, compared to HFC-134a with GWP of 1300. Eco-Freezer can be a drop-in replacement when GWP needs to be lowered.

The Renew Eco-Freezer rapidly evaporated liquids that super-chills isolated areas. Used as a troubleshooting aid for intermittently faulting capacitors, resistors, semiconductors, and other defective components. It also increases visibility of cold solder joints, cracks in printed circuit boards and oxidized junctions.

Features / Benefits

- Nonflammable
- Wide spray for whole board cooling
- Cools Surfaces to below -49 °F / -45 °C
- Ultra-low global warming impact of 6
- Noncorrosive
- Ultra-pure, filtered to <0.2 microns
- CFC, HCFC and HFC free
- VOC free

Usage Instructions

- For industrial use only.
- Read MSDS carefully prior to use

Always be sure that the spray head is aimed at surface to be chilled. Allow components to heat up to normal operating temperature or until intermittent fault occurs. Spray suspected component until chilled. Product will freeze small areas. Due to the colder temperature and the more aggressive nature of the product, prolonged spraying may cause blistering of some conformal coatings or deterioration of some plastics. Always test on an inconspicuous area before using. Can crack ceramics and other temperature sensitive components.



Typical Product Data and Physical Properties

Boiling point	-2 °F / -19 °C
Cools to:	-49 °F / -45 °C
Vapor Density (air=1) @ 70°F	4.0
Solubility in Water @ 70°F/1 atm	>0.10% by weight
Specific Gravity (Water = 1 @ 70°F)	1.17
Evaporation Rate (Butyl acetate=1)	>1
Appearance	Clear, Colorless, Liquefied Gas
Odor	Slight Ethereal
Internal Pressure	47 psia @ 70 °F
Flash Point (TCC)	None
Shelf life	5 years
RoHS/WEEE Status	



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Compatibility (cont.)

Material Name	Compatibility
Buna-N:	Good
Graphite:	Excellent
HDPE:	Fair
LDPE	Fair
Lexan™	Good
Neoprene	Good
Cross-Linked PE	Good
Polyacrylate	Good
Polystyrene:	Good
PVC:	Good
Silicone Rubber:	Fair
Teflon™	Fair
Viton™:	Poor

Renew Eco-Freezer is generally compatible with most materials used in printed circuit board fabrication, including sensitive plastics and compounds. With any circuit refrigerant, compatibility must be determined on a non-critical area prior to use.

Packaging and Availability

Renew Eco-Freezer is available in the following sizes:

1583-10S 250ml aerosol

Environmental Impact Data

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

Environmental Impact Data			
CFC	0.0%	VOC	0.0%
HCFC	0.0%	HFC	0.0%
CL Solv.	0.0%	ODP	0.00

CFC, HCFC, CL. Solv., VOC and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation. VOC consideration is based on the materials being not photo chemically reactive by Commonly Used Standards (material supplier).

Resources

Techspray® products are supported by a global sales, technical and customer services resources.

For additional technical information on this product or other Techspray® products in the United States, call the technical sales department at 800-858-4043, email tsales@techspray.com or visit our web site at www.techspray.com.

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