



## Eco-Freezer Product# 1583

### Product Description

Eco-Freezer is formulated with new HFO-1234ze propellant; with a fraction of the global warming potential (GWP) of HFC-134a based 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.

### Features / Benefits

- Global Warming Potential (GWP) of <1
- Chills down to -49°F (-45°C)
- Nonflammable\*
- Non-ozone depleting
- Zero residue & no odor

\* under ambient conditions

### Applications

- Cool Equipment for testing
- Dissipate heat while soldering or desoldering
- Isolate thermal intermittent components
- Test circuit traces for continuity
- Test printed circuit boards for stress fractures
- Track intermittent failures and shorts

### Usage Instructions

CAUTION: Always be sure that sprayhead 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, it is possible that 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

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| <b>Physical state</b>             | Gas                                 |
| <b>Flash Point</b>                | Product does not sustain combustion |
| <b>Auto-ignition temperature</b>  | 694.4°F (368°C)                     |
| <b>Color</b>                      | Clear, colorless                    |
| <b>Odor</b>                       | Ethereal; Faint odor                |
| <b>Boiling/condensation point</b> | -2.2°F (-19°C)                      |
| <b>Vapor pressure</b>             | 8kPa (60 mmHg)<br>room temperature  |
| <b>Shelf life</b>                 | 10 years                            |

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### Compatibility

| Material        | Compatibility |
|-----------------|---------------|
| Buna-N          | Excellent     |
| Graphite        | Excellent     |
| HDPE            | Excellent     |
| LDPE            | Excellent     |
| Lexan           | Excellent     |
| Neoprene        | Excellent     |
| Cross-Linked PE | Excellent     |
| Polyacrylate    | Excellent     |
| Polystyrene     | Excellent     |
| PVC             | Excellent     |
| Silicone Rubber | Excellent     |
| Teflon          | Excellent     |
| Viton           | Excellent     |

### Environmental Impact Data

|          |      |
|----------|------|
| CFC      | 0.0% |
| HCFC     | 0.0% |
| CL Solv. | 0.0% |
| VOC      | 0.0% |
| HFC      | 0.0% |
| ODP      | 0.0  |

### Packaging and Availability

**1583-10S** 10 oz. (284g)

### Environmental Policy

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.

### Resources

Techspray® products are supported by 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](mailto:tsales@techspray.com) or visit our web site at: [www.echspray.com](http://www.echspray.com).

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