

# CHEMTRONICS<sup>®</sup>

## Technical Data Sheet

**TDS # 1550E**

### Freez-It<sup>®</sup>

#### PRODUCT DESCRIPTION

Freez-It<sup>®</sup> is engineered for locating thermal intermittent electrical components and cooling printed circuit boards. This circuit refrigerant system is nonflammable, residue-free and provides fast cooling action.


- Nonflammable
- High heat transfer
- Low static generation
- Non-corrosive
- Lowers temperature to -60°F (51°C)
- Ultra pure, filtered to <0.2 microns
- Leaves no residue
- Nonabrasive on most surfaces
- Contains no CFCs or HCFCs

#### TYPICAL APPLICATIONS

Freez-It<sup>®</sup> can be used to:

- 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

#### TYPICAL PRODUCT DATA AND PHYSICAL PROPERTIES

<b>Boiling Point</b>	-15.7°F
<b>Vapor Density (air=1) @ 77°F</b>	3.18
<b>Solubility in Water @ 77°F /1 atm</b>	0.10% by weight
<b>Specific Gravity (water = 1 @77°F)</b>	1.21
<b>Evaporation Rate (butyl acetate=1)</b>	>1
<b>Appearance</b>	Clear, Colorless Liquified Gas
<b>Odor</b>	Slight Ethereal
<b>Surface Tension (dynes/cm @ 77°F)</b>	7.8
<b>Flash Point (TCC)</b>	None
<b>Shelflife</b>	5 years
<b>RoHS/WEEE Status</b>	

#### COMPATIBILITY

Freez-It<sup>®</sup> 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.

<u>Material</u>	<u>Compatibility</u>
Buna-N	Fair
Graphite	Good
HDPE	Good
LDPE	Good
Lexan™	Poor
Neoprene	Good
Cross-Linked PE	Good
Polyacrylate	Poor
Polystyrene	Good
PVC	Good
Silicone Rubber	Fair
Teflon™	Good
Viton™	Poor

## TECHNICAL & APPLICATION ASSISTANCE

Chemtronics® provides a technical hotline to answer your technical and application related questions. The toll free number is:

**1-800-TECH-401.**

## ENVIRONMENTAL IMPACT DATA

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CFC	0.0%	VOC	0.0%
HCFC	0.0%	HFC	100.0%
CL Solv.	0.0%	ODP	0.0

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.

### NOTE:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. CHEMTRONICS® does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

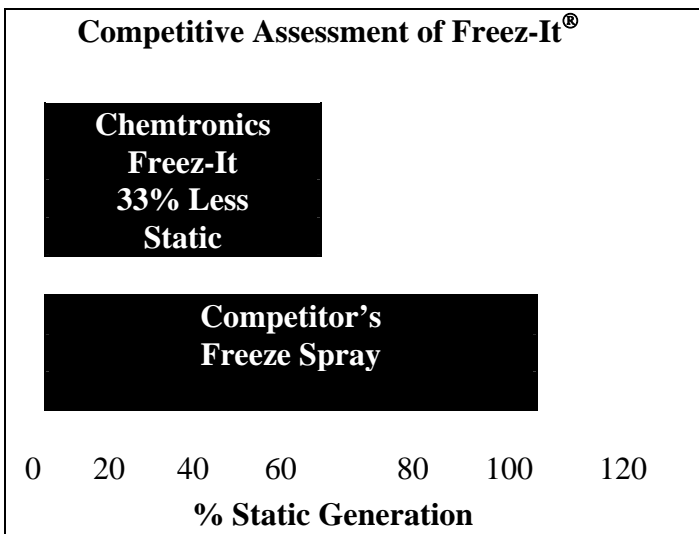
### MANUFACTURED BY:

ITW CHEMTRONICS  
8125 COBB CENTER DRIVE  
KENNESAW, GA 30152  
1-770-424-4888

REV. E (06/06)

### DISTRIBUTED BY:

### Competitive Assessment of Freez-It®



## USAGE INSTRUCTIONS

For industrial use only.

Read MSDS carefully prior to use.

No special surface preparation is required prior to using Freez-It®. Direct spray onto the area to instantly cool components, circuit boards or adhesives. For optimum performance and pin point control, use

Freez-It® with the attached extension tube.

## AVAILABILITY

ES1550E 400 ml. Aerosol