CHEMTRONICS
Technical Data Sheet

TDS # 1052

Freeze Spray

PRODUCT DESCRIPTION

Freeze Spray is engineered for locating thermal inte rmittent e lectrical components and cooling printed c ircuit boa rds. T his circuit r efrigerant sy stem is nonf lammable, residue-free and provides fast cooling action.

- Nonflammable
- High heat transfer
- Low static generation
- Noncorrosive
- Lowers temperature to -60°F (51°C)
- Ultra pure
- Leaves no residue
- Nonabrasive on most surfaces

TYPICAL APPLICATIONS

Freeze Spray 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

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

COMPATIBILITY

Freeze Spray is ge nerally c ompatible w ith most materials used in pr inted c ircuit boa rd fabrication, including sensitive plastics and compounds. W ith a ny c ircuit r efrigerant, compatibility m ust be de termined on a non-critical area prior to use.

Material	Compatibility
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

USAGE INSTRUCTIONS

For industrial use only.
Read MSDS carefully prior to use.
No special surface preparation is required prior to using Freeze Spray. Direct spray onto the area to instantly cool components, circuit boards or adhesives.

AVAILABILITY

ES1052 10 oz. Aerosol

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 zero. 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.

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