



## **FREEZER/2** **FAULT DETECTION ON ELECTRONICS**



**FREEZER/2** is a rapid cooling agent for locating faults in electronic components and for cooling thermally sensitive parts during soldering or calibration.

This product has been formulated without the use of any CFCs or HCFCs.

EU F-Gas compliant. Non-Flammable\*.

### **APPLICATIONS**

Suitable for instant fault finding on electronic equipment, such as printed circuit boards, transistors, resistors, condensers and intermittent dry joint connectors.

The product should be sprayed directly onto the suspect component. If fault disappears, this confirms that the component is defective and should be replaced.

Other useful applications for Freezer include shrink fitting of metal assemblies and embrittlement of sticky substances (e.g. chewing gum) to facilitate removal.

### **TECHNICAL DATA**

Appearance	:	Gas at room temperature. Produces a temporary frosted finish
Odour	:	Slight ethereal odour
Specifications/Approvals	:	British Rail Catalogue No. 7/20505
SG @ 25°C	:	1.18
Pressure @ 25°C	:	4.9 Bar
Discharge rate	:	1.5 g/sec
Temperature range	:	Reduces component temperature to -50°C
Solubility	:	Soluble in some solvents, insoluble in water
Flammability	:	Non-flammable (according to directive 2008/47/EC)*
Flashpoint	:	Not applicable in sealed aerosol
Packaging	:	400 ml aerosol (12 per carton)

## **STORAGE**

The product may be stored at normal ambient temperatures and has a shelf life of not less than 72 months with correct storage. Aerosols should always be stored below 50°C, away from direct heat and naked flame.

## **HEALTH AND SAFETY**

Health and Safety sheet available separately.

### **\* Remark regarding flammability:**

Although classified as nonflammable by GHS, DOT, IATA and IMDG and as measured by ASTM E-681 and ISO 10156, Solstice® Propellant (HFO-1234ze) can exhibit vapor flame limits at elevated temperatures. Solstice® Propellant has a very narrow flammable range (LFL-UFL) of 8.0-8.5 volume percent in air at one atmosphere under the following conditions:

- Temperature is 86°F (30°C), (and)
- Relative Humidity ≥50%, (and)
- High energy ignition source or open flame is present

Accordingly, CRC recommends that for use on energized electrical equipment the ambient temperature should be below 28°C.

## **TECHNICAL SERVICE**

CRC Industries UK Ltd provides a technical support service and maintains a constant programme of research and development. We are able to assist customers by specific product development to meet particular requirements.

## **MISREPRESENTATION ACT 1967    TRADE DESCRIPTIONS ACT 1968**

The information given in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which affect the use and performance of our products and for which reason no warranty is given, express or implied. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

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