

# SAFETY DATA SHEET

**Freez-It****CP0727 v4.1 RS 329-2707, 329-2713**

## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

**Product name** : Freez-It  
**Synonyms** : ES1550E  
**Use of the substance/preparation** : Industrial applications  
**Company/undertaking identification**  
**Manufacturer** : ITW Chemtronics  
8125 Cobb Center Drive  
Kennesaw, GA 30152  
**Supplier** : RS Components Ltd,  
Birchington Road, Corby, Northants, NN17 9RS.  
Tel: (01536) 402888  
**Importer** : ITW Contamination Control  
Skejby Nordlandsvej 307  
DK-8200 Aarhus N  
Denmark  
Tel +45 87 400 220  
Fax +45 87 400 222  
Email: info@itw-cc.com  
**Emergency telephone number** : Chemtrec - 1-800-424-9300 or collect 703-527-3887

## 2. Composition/information on ingredients

**Substance/Preparation** : Preparation

<b>Ingredient Name</b>	<b>CAS number</b>	<b>%</b>	<b>EC Number</b>	<b>Classification</b>
1,1,1,2-TETRAFLUOROETHANE Dimethyl ether See Section 16 for the full text of the R Phrases declared above	811-97-2 115-10-6	95-99 1-4	212-377-0 204-065-8	F+; R12

\* Occupational Exposure Limit(s), if available, are listed in Section 8

## 3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Human health hazards** : Irritating to eyes and skin.

See Section 11 for more detailed information on health effects and symptoms.

## 4. First aid measures

### First aid measures

**Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.  
**Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.  
**Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.

**Specific treatments** :

See Section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

**Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub> extinguisher or spray.  
**Special exposure hazards** : Pressurized container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.  
Not available.  
**Hazardous thermal decomposition products** : halogenated compounds  
**Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

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## 6. Accidental release measures

**Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

**Environmental precautions and cleanup methods** :

**Note:** See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

**Handling** : Wash thoroughly after handling.

**Storage** : Keep container in a cool, well-ventilated area. Hot containers may explode.

**Packaging materials**

**Recommended** : Use original container.

**Specific uses** :

## 8. Exposure controls/personal protection

### Ingredient Name

Dimethyl ether

### Occupational Exposure Limits

**EU OEL (Europe, 2000). Notes: Indicative**

TWA: 1920 mg/m<sup>3</sup> 8 hour(s).

TWA: 1000 ppm 8 hour(s).

**Exposure controls**

**Occupational exposure controls** : Use only in well-ventilated areas.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hand protection** : No special recommendations.

**Eye protection** : Safety glasses.

**Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).

## 9. Physical and chemical properties

**General information**

**Appearance**

**Physical state** : Gas.

**Colour** : Colourless.

**Odour** : Not available.

**Important health, safety and environmental information**

**pH** : Not available.

**Melting point** : -138.45°C (-217.2°F) based on data for: Dimethyl ether.

**Flash point** : The lowest known value is Closed cup: -41.1°C (-42°F). (Dimethyl ether)

**Explosive properties** : Not considered as a product presenting risks of explosion.

**Oxidising properties** : Not available.

**Vapour pressure** : 4730 mmHg

**Relative density** : 1.23 g/cm<sup>3</sup>

**Solubility** : Not available.

**Vapour density** : 3.18 Air = 1

**Evaporation rate (butyl acetate = 1)** : >1 Butyl acetate.

**Other information**

**Auto-ignition temperature** : The lowest known value is 349.9°C (661.8°F) (Dimethyl ether).

## 10. Stability and reactivity

**Stability** : The product is stable.

**Conditions to Avoid** : Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.

**Materials to avoid** : Incompatible with magnesium, zinc, sodium, potassium and aluminium.

**Hazardous Decomposition Products** : halogenated compounds

## 11. Toxicological information

### Potential Acute Health Effects

- Inhalation** : Inhalation of vapours may cause dizziness, an irregular heartbeat, narcosis, nausea or asphyxiation.
- Ingestion** : No specific hazard.
- Skin Contact** : Irritating to skin.
- Eye contact** : May cause eye irritation.

### Over-exposure signs/symptoms

## 12. Ecological information




- Other adverse effects** : Not available.

## 13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste Classification** : Not applicable.
- European Waste Catalogue (EWC)** : Not available.
- Hazardous Waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1950	Aerosol.	2	-		-
ADN Class	1950	Aerosol.	2	-		-
IMDG Class	1950	Aerosol. Limited Quantity	2.2	-		-
IATA-DGR Class	1950	Aerosol.	2.2	-		-

## 15. Regulatory information

### EU Regulations

- Risk phrases** : This product is not classified according to the EU regulations.
- Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.  
- Industrial applications Keep out of the reach of children.
- Additional Warning Phrases** :
- EC Statistical Classification (Tariff Code)** : 32089091

## 16. Other information

- Full text of R phrases referred to in Sections 2 and 3 - Europe** : R12- Extremely flammable.

- Full text of classifications referred to in Sections 2 and 3 - Europe** : F+ - Extremely flammable

### HISTORY

- Date of printing** : 3/21/2006.
- Date of issue** : 3/21/2006.
- Date of previous issue** : No Previous Validation.

**Version : 1.04****Prepared by :****Notice to Reader**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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