

**Productname :** FREEZER 2  
**Ref.Nr.:** BDS002496\_3\_20190927 (EN)

**Creationdate :** 27.09.19 Version : 1.1  
**Replaces:**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**FREEZER 2**  
Aerosol

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Cooling agent

### 1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.  
Wylds Road  
Castlefield Industrial Estate  
TA6 4DD Bridgwater Somerset  
United Kingdom  
Tel.: +44 1278 727200  
Fax.: +44 1278 425644  
E-mail : hse.uk@crcind.com

### 1.4. Emergency telephone number

(+44)(0)1278 72 7200 (office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

<b>Physical:</b>	Aerosol, category 3 Pressurised container: May burst if heated.
<b>Health:</b>	Not classified
<b>Environment:</b>	Not classified
<b>Other hazards :</b>	Avoid contact with skin and eyes, in case of contact with liquid product frostbite symptoms may occur.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

**Product identifier:**



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**Signal word:** Warning  
**Hazard statement(s):** H229 : Pressurised container: May burst if heated.  
**Precautionary statement(s):** P102 : Keep out of reach of children.  
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 : Do not pierce or burn, even after use.  
P336 : Thaw frosted parts with lukewarm water. Do not rub affected area.  
P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
**Supplemental Hazard information:** Avoid contact with skin and eyes, in case of contact with liquid product frostbite symptoms may occur.

### 2.3. Other hazards

In case of contact with liquid product frostbite symptoms may occur.  
Aerosols may explode if heated above 50°C

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Hazardous ingredient	Registration number	CAS-nr.	EC-nr	w/w %	Hazard Class and Category	Hazard statement	Notes
trans-1,3,3,3-tetrafluoroprop-1-ene	01-0000019758-54	29118-24-9	471-480-0	75-100	Press. Gas	H280	

(\* Explanation phrases : see chapter 16)

### 3.2. Mixtures

Not applicable.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Contact with eyes :** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
**Contact with skin :** In case of contact with liquid, thaw frosted parts with water, remove clothing carefully and wash with soap & water  
Seek medical advice  
**Inhalation :** Fresh air, keep warm and at rest.  
**Ingestion :** In case of accident or if you feel unwell, seek medical advice (show the label where possible)

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation :** Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness



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**Ingestion :** Not available.  
**Skin contact :** In case of contact with liquid product frostbite symptoms may occur.  
**Eye contact :** In case of contact with liquid product frostbite symptoms may occur.

#### 4.3. Indication of any immediate medical attention and special treatment needed

**General Advice :** In case of accident or if you feel unwell, seek medical advice (show the label where possible)  
If symptoms persist always call a doctor

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

water, foam, carbon dioxide or dry agent

#### 5.2. Special hazards arising from the substance or mixture

Aerosols may explode if heated above 50°C  
Forms hazardous decomposition products  
CO,CO2  
HF may be formed under condition of fire

#### 5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water  
In case of fire, do not breathe fumes

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources  
Ensure adequate ventilation  
Wear suitable protective clothing and gloves.

#### 6.2. Environmental precautions

Do not allow to enter public sewers and watercourses

#### 6.3. Methods and material for containment and cleaning up

Allow product to evaporate

#### 6.4. Reference to other sections

For further information see section 8

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat and sources of ignition  
Do not spray on a naked flame or incandescent material.  
Do not pierce or burn aerosols, even after use.  
Do not breathe aerosols or vapours.  
Ensure adequate ventilation  
Avoid contact with skin and eyes.  
For use on energized equipment keep ambient temperature below 28°C.

### 7.2. Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Store in a well-ventilated place.  
Keep out of reach of children.

### 7.3. Specific end use(s)

Cooling agent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits :

No information available

### 8.2. Exposure controls

<b>Control procedures :</b>	Ensure adequate ventilation Keep away from heat and sources of ignition
<b>Personal protection :</b>	Take precautions to avoid contact with skin and eyes when handling the product. Ensure adequate ventilation
<b>inhalation :</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Compressed air mask.
<b>hands and skin :</b>	For incidental contact with the product wear chemical-resistant gloves (standard EN 374). The use of disposable gloves is acceptable provided that they are changed immediately after a splash or spill. In all cases handle and use the product in accordance with good industrial hygiene practices.
<b>eyes :</b>	Wear safety eyewear according to EN 166.
<b>Environmental protection:</b>	Avoid release to the environment.
<b>Consumer exposure protection:</b>	Do not eat, drink or smoke when using this product.



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Use only outdoors or in a well-ventilated area.  
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

<b>Apperance : physical state :</b>	HFO1234ze propelled liquid
<b>colour :</b>	Colorless.
<b>odour :</b>	Odorless.
<b>pH :</b>	Not applicable.
<b>Boiling point/range :</b>	-19 °C
<b>Flash point :</b>	None
<b>Evaporation rate :</b>	Not applicable.
<b>Explosion limits : upper limit :</b>	No UEL was assigned at standard testing conditions(20°C). Exhibits flame limits at temperatures in excess of 28°C.
<b>lower limit :</b>	No LEL was assigned at standard testing conditions(20°C). Exhibits flame limits at temperatures in excess of 28°C.
<b>Vapour pressure :</b>	420 kPa (@ 20°C).
<b>Relative density :</b>	1.18 g/cm3 (@ 20°C).
<b>Solubility in water :</b>	Partly soluble in water
<b>Auto-ignition :</b>	288-293 °C
<b>Viscosity :</b>	Not applicable.

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose

### 10.2. Chemical stability

Stable

### 10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

### 10.4. Conditions to avoid

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C.  
Avoid overheating

### 10.5. Incompatible materials

Strong oxidising agent



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## 10.6. Hazardous decomposition products

CO,CO2  
HF may be formed under condition of fire

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>acute toxicity:</b>	based on available data the classification criteria are not met
<b>skin corrosion/irritation:</b>	based on available data the classification criteria are not met
<b>serious eye damage/irritation:</b>	based on available data the classification criteria are not met
<b>respiratory or skin sensitisation:</b>	based on available data the classification criteria are not met
<b>germ cell mutagenicity:</b>	based on available data the classification criteria are not met
<b>carcinogenicity:</b>	based on available data the classification criteria are not met
<b>toxicity for reproduction:</b>	based on available data the classification criteria are not met
<b>STOT-single exposure:</b>	based on available data the classification criteria are not met
<b>STOT repeated exposure:</b>	based on available data the classification criteria are not met
<b>aspiration hazard:</b>	based on available data the classification criteria are not met

### Information on likely routes of exposure:

<b>Inhalation :</b>	Inhalation of gas may give rise to nausea, headaches and dizziness.
<b>Ingestion :</b>	Ingestion is unlikely to occur
<b>Skin contact :</b>	In case of contact with liquid product frostbite symptoms may occur.
<b>Eye contact :</b>	In case of contact with liquid product frostbite symptoms may occur.

### Toxicological data :

No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological data:

No information available

### 12.2. Persistence and degradability

Not readily biodegradable

### 12.3. Bioaccumulative potential



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For all ingredients the octanol-water partion coefficient is below 4.

#### 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

No information available

#### 12.6. Other adverse effects

No experimental data available

GWP (global warming potential): 7

(calculated in accordance with Annex IV of Regulation (EU) No 517/2014 on fluorinated greenhouse gases)

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Product :** This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.  
**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

### SECTION 14: Transport information

#### 14.1. UN number

UN-number : 1950

#### 14.2. UN proper shipping name

Proper shipping name: AEROSOLS

#### 14.3. Transport hazard class(es)

Class: 2.2  
ADR/RID - Classification code: 5A

#### 14.4. Packing group

Packing group: Not applicable.

#### 14.5. Environmental hazards

ADR/RID - Environmentally No



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hazardous:  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally  
hazardous: No

#### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (E)  
IMDG - Ems: F-D, S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The Safety Data Sheet is compiled according to the current European requirements.  
Regulation (EC) No 1907/2006 (REACH)  
Regulation (EC) No 1272/2008 (CLP)  
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation hazard statements: H280 : Contains gas under pressure; may explode if heated.  
This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.  
The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.  
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