



Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.09.2010

V - 3

Revision: 28.09.2010

1 Identification of substance:

- **Product details:**
- **Trade name: Cramolin Freezer Top**
- **Article number:** 130
- **Application of the substance / the preparation:**
High pressure nonflammable Duster with extra strength.
- **Manufacturer/Supplier:**
ITW Chemische Produkte GmbH & Co. KG
Mühlacker Str. 149
D-75417 Mühlacker
Tel: +49 7041 96340
Fax: +49 7041 963429
E-Mail: info@itwcp.de
Internet: www.itwcp.de
- **Informing department:** Product safety department
- **Emergency information:**
ITW Chemische Produkte GmbH & Co. KG
Tel: +49 7041 96340 Mo - Do 8:00 - 16:30 Fr 8:00 - 14:00

2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment**
No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
The marking is valid for all pressurized container up to 50ml carrying capacity.
Warning! Pressurized container.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Keep out of the reach of children
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture consisting of the following components.

- **components:**

CAS: 811-97-2 EINECS: 212-377-0	1,1,1,2-tetrafluoroethane (HFC 134a)		50-100%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

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4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing**
Seek medical treatment.
A person vomiting while lying on their back should be turned onto their side.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
Store in a cool place. Heat will increase pressure and may lead to the container exploding.
- **Protective equipment:**
Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Avoid contact with the eyes and skin.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb liquid components with liquid-binding material.
Dispose of the material collected according to regulations.
- **Additional information:** See Section 7 for information on safe handling

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store only in the original container.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.

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Store in a cool place. Heat will increase pressure and may lead to the container exploding.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

811-97-2 1,1,1,2-tetrafluoroethane (HFC 134a)

WEL (Great Britain)	Long-term value: 4240 mg/m ³ , 1000 ppm
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115-10-6 dimethyl ether

WEL (Great Britain)	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
IOELV (European Union)	Long-term value: 1920 mg/m ³ , 1000 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- **Breathing equipment:** During good ventilation/exhaust or during brief, small load not necessarily.

- **Protection of hands:**

Not required

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

No special precautions necessary if used correctly.

Avoid contact with the eyes.

9 Physical and chemical properties:

- **General Information**

Form:	Aerosol
Colour:	colourless

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Odour:	Weak, characteristic
· Change in condition Melting point/Melting range:	Not determined
Boiling point/Boiling range:	-26°C
· Flash point:	Not applicable
· Self-inflammability:	Product is not self igniting.
· Danger of explosion:	Product is not explosive.
· Vapour pressure at 20°C:	5716 hPa
· Density at 20°C	1.2 g/cm ³
· Solubility in / Miscibility with Water at 20°C:	1.93 g/l
· Solvent content: Organic solvents:	2.5 %

10 Stability and reactivity

- **Thermal decomposition/ Conditions to be avoided:** Protect from heat and direct sunlight.
- **Dangerous reactions** Danger of bursting
- **Dangerous products of decomposition:**
No dangerous products of decomposition if used and stored according to specifications.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** no data available.
- **Primary irritant effect:**
- **on the skin:** no data available.
- **on the eye:** no data available.
- **Sensitisation:** No sensitising effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

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13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.

- **European waste catalogue**

16 05 04 gases in pressure containers (including halons) containing dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- **ADR/RID-GGVSE Class:** 2 5A Gases.
- **Kemler Number:** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.2
- **Designation of goods:** 1950 AEROSOLS

- Maritime transport IMDG:



- **IMDG Class:** 2.2
- **UN Number:** 1950
- **Label** 2.2
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Correct technical name:** AEROSOLS

- Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 2.2
- **UN/ID Number:** 1950
- **Label** 2.2
- **Packaging group:** -
- **Correct technical name:** AEROSOLS, non-flammable

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15 Regulatory information

- **Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

- **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray.

60 This material and its container must be disposed of as hazardous waste.

- **Special designation of certain preparations:**

Safety data sheet available for professional user on request.

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

Do not pierce or burn, even after use.

Keep out of the reach of children

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

Information is based on our current knowledge but does not establish a promise of product characteristics and does not substantiate any contractual legal relationship.

- **Relevant R-phrases**

- **Contact:** ITW Chemische Produkte GmbH & Co. KG, D-75417 Mühlacker

- * **Data compared to the previous version altered.** .

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