

**Safety data sheet pursuant to ordinance  
(EC) No. 453/2010  
(EC) No. 1907/2006 (REACH)**

Print date : 10.07.2015

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Cimco-Werkzeugfabrik  
Carl Jul. Müller GmbH & Co. KG

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**1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME**

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**1.1 Product identifier**

**Product name** Freeze spray Art. No. **151090**  
**Trade name** Freeze spray Art. No. **151090**  
**CAS No.**  
**EC No.**

**1.2 Relevant identified use of material or mixture and uses that are not advisable**

Recommended  
limitations of the  
application

Use of the  
material/mixture Technical aerosols

**1.3 Details on the supplier who is making the safety data sheet available**

**Company** Cimco Werkzeugfabrik Carl Jul. Müller GmbH & Co. KG  
Hohenhagener Straße 1 - 5  
D-42855 Remscheid, Germany  
+49 (0) 21913718-01 Fax: +49 (0) 21913718-86

**1.4 Emergency number** **Emergency CONTACT (24-Hour-Number)**  
**GBK GmbH +49 (0)6132-84463**

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**2. POSSIBLE HAZARDS**

**2.1 Classification of the material**

- **Classification in accordance with the directive (EC) No. 1272/2008 [CLP/GHS]**  
Aerosol 1 H222, H229,

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## 2.2 Label elements

- **Labelling according to directive (EC) No. 1272/2008 [CLP/GHS]**



**GHS02**

**Signal word:**

Hazard

**Hazard information:**

H222 Extremely inflammable aerosol.  
H229 Pressurised container: could burst if heated.

**Safety information:**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. Do not smoke.  
P211 Do not spray against open flames or other sources of ignition.  
P251 Do not puncture or incinerate, even after use.  
P260 Do not inhale dust/smoke/gas/mist/vapour/aerosol.  
P271 Only use outdoors or in well ventilated rooms.  
P410 + P412 Protect against direct sunlight and do not expose to temperatures above 50°C.  
P501 Dispose of content/container as problem waste.

## 2.3 Other dangers

- The product has a narcotic effect.
- **Results of the PBT and vPvB assessment**
- **PBT:** The materials in the mixture do not meet the PBT/vPvB criteria according to REACH, Appendix XIII.
- **vPvB:** not applicable

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**3. COMPOSITION / INFORMATION ON COMPONENTS**

Constituents	EC No.	CAS No.	Concentrate [% by weight]
Propane	200-827-9	74-98-6	20-30 Flam. gas, H220 Compressed gas
Isobutane	200-857-2	75-28-5	10-20 Flam. Gas 1, H220 Compressed gas
Butane	203-448-7	106-97-8	50-70 Flam. Gas 1, H220 Compressed gas

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General information**

Remove dirty, saturated clothing immediately.

**After inhaling**

Ensure there is fresh air.  
In the event of complaints, seek medical assistance.

**After skin contact**

In the event of skin contact, wash off with water.  
In the event of long-term skin irritation, consult doctor.

**After swallowing**

Do not induce vomiting.  
Seek medical attention if symptoms persist.

**After eye contact**

In the event of contact with the eyes, rinse thoroughly with lots of water.

**4.2 Important symptoms and effects which are acute or occur with a delay**

Anaesthetic state, headache.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information is available.

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## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing agents

**Suitable extinguishing agents** Extinguishing powder, carbon dioxide, sand

**Unsuitable extinguishing agents** Direct water jet

### 5.2 Particular risks associated with the material or mixture

Danger of bursting. In the event of a fire, it is possible that hazardous gases may be formed.

### 5.3 Information on fire fighting

#### **Special protective equipment for firefighting:**

In the presence of combustion or carbonization gases, any firefighting, rescue and clearing up activities should be undertaken only with heavy-duty respiratory protection.

#### **Further information:**

Cool endangered containers with water spray jet.

Collect contaminated quenching water separately; it must not enter the sewage system.

## 6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

### 6.1 Person-related safety precautions, protective equipment and procedures to be followed in emergencies

Ensure sufficient ventilation.

Use personal protective clothing.

Keep ignition sources away.

### 6.2 Environmental protection measures

If surface water or sewage system are contaminated, inform the responsible authorities.

Do not allow to enter sewage system / surface water / ground water.

### 6.3 Methods and material for containment and cleaning

Allow to evaporate.

### 6.4 References to other sections

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Safe handling: see section 7  
Disposal: see section 13  
Personal protective equipment: see section 8

## 7. HANDLING AND STORAGE

### 7.1 Safety measures for safe handling

Information on safe handling	Ensure good room ventilation, extraction at the workplace where necessary.
General protection measures	Do not inhale gases / vapours / aerosols.
Hygiene measures	Do not smoke, eat, drink or sniff while working. Wash hands before breaks and after finishing work.
Information on fire and explosion protection	Keep away from ignition sources – Do not smoke. Do not spray onto flames or incandescent materials. Pressurised container. Do not force open or incinerate after use. Together with air, vapours can form an explosive mixture. Take measures to protect against electrostatic charges. Formation of explosive gas mixtures with air.

### 7.2 Conditions for safe storage taking incompatibilities into consideration

Storage requirements	Keep sealed in original packaging. The local authority regulations for storage of aerosol dispensers are to be observed.
Information on storage with other products	
Further information on storage conditions	Protect against heat and direct sunlight. The storage temperature must not exceed 50 °C. Keep container in a cool, well-ventilated place.
Storage class	2B
Fire classification	C

### 7.3 Specific end use

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See section 1.2

## 8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

### 8.1 Limit values

CAS No.	Designation	Type	[mg/m <sup>3</sup> ]	[ppm]	Peak limit	Note
106-97-8	Butane	8 hours	2400	1000	4(II)	DFG
75-28-5	Isobutane	8 hours	2400	1000	4(II)	DFG
74-98-6	Propane	8 hours	1800	1000	4(II)	DFG

### Additional information

National and local legal provisions must be adhered to.

### 8.2 Limiting and monitoring exposure

Personal protective equipment

General protective and hygiene measures

The usual regulations for handling chemicals needs to be adhered to.

Do not breathe in dust/smoke/mist. Keep away from food, drink and animal feed. Do not smoke, eat or drink while working. Avoid contact with the eyes and skin. Wash hands before a break and after finishing work.

Respiratory protection

Respiratory protection in the event of insufficient extraction or prolonged exposure.

Hand protection

It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Information on glove material [kind/type, thickness, penetration time/wearing period, wetting resistance]: nitrile, 0.4 mm, 60 min., 480 min.

The type of chemical protection gloves is to be selected according to the concentration and quantity of hazardous materials at the specific workplace.

Eye protection

Tight fitting safety glasses.

Personal protection

Protective workwear.

Limiting and monitoring environmental

Ensure good room ventilation, extraction at the workplace where

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exposure necessary.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Form	aerosol
Colour	colourless
Odour	characteristic
Steam pressure	4500 hPa 20 °C
Relative density	0.56 g/cm <sup>3</sup> 20 °C
Melting point / Freezing point	- na -
Explosive properties	LEL: 1.5 vol. % UEL: 10.9 vol%
Self-ignition temperature	- na -
Ignition point	- na -
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	365° C.
Solvent content	- na -
Solids content	- na -

### 9.2 Other information

No information is available.

## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

No information available

### 10.2 Chemical stability

No information is available.

### 10.3 Possible hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to be avoided

Avoid exposure to heat.

### 10.5 Incompatible materials

No information is available.

### 10.6 Dangerous decomposition processes

No decomposition when used as intended.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
Skin irritation	not irritating			
Eye irritation	not irritating			
Sensitisation skin	not sensitising			

### Practical experience

Inhalation has a narcotic/intoxicating effect.

### General comments

The product is to be handled with the care usual when handling chemicals.  
Other hazardous characteristics can not be ruled out.

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## 12. ENVIRONMENTAL INFORMATION



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### 12.1 Toxicity

No information is available.

### 12.2 Persistence and degradability

No additional information is available.

### 12.3 Bio accumulation potential

No additional information is available.

### 12.4 Mobility in the soil

No additional information is available.

### 12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

### 12.6. Other harmful effects

The material has no environment-damaging effects.

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## 13. INFORMATION ON DISPOSAL

Recommendation For correct waste disposal, empty the spray completely.

Product Dispose of in accordance with local authority regulations.

Waste code 15 01 04 Packaging made of metal.

Unclean packaging Dispose of in accordance with local authority regulations.

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## 14. INFORMATION ON TRANSPORT

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	ADR/RID	IMDG	IATA-DGR
<b>14.1 UN number</b>	1950	1950	1950
<b>14.2 Proper UN shipping name</b>	COMPRESSED GAS PACKAGING	AEROSOLS	Aerosols, inflammable
<b>14.3 Transport hazard class</b>	2.1	2.1	2.1
<b>14.4 Packaging group</b>	-	-	-
<b>14.5 Environmental hazards</b>	no	no	no

**14.6 Special preventive measures for the user**

Caution: Gases

**14.7 Bulk transport according to Appendix II of the MARPOL agreement 73/78 and according to the IBC code**

Not applicable

**Transport by land ADR/RID**

Danger label 2.1

Tunnel restriction code D

Classification code 5F

Transport as "Limited quantity" as per section 3.4 ADR

**15. STATUTORY REGULATIONS**

**15.1 Regulations on safety, health and environmental protection / specific legal regulations for the material or the mixture**

**VOC guideline**

**Note**

Daten separat anfragen / Request data separately.

**National regulations**

