

# EC Safety Data Sheet 91/155/EWG

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EC Safety Data Sheet

Version: 004

Product: DC Kältespray

Date of issue: 03.11.08

Date of printing: 12.11.08

## 1. Commercial product name and supplier

Commercial product name: DC Kältespray  
Producer: DC Dental Central Großhandelsges.mbH  
Carl-Zeiss-Str.2  
D-22946 Trittau  
Tel.: ++49 (0) 4154 8437-0 Fax: ++49 (0)4154 8437-33  
Informations: Tel.: ++49 (0) 4154 8437-0  
TOX emergency number: Tel.: ++49 (0)30 19240 Telefax: ++49 (0)30 32680721  
Landesberatungsstelle für Vergiftungserscheinungen und  
Embryonaltoxikologie,  
Pulsstraße 3-7, D-14059 Berlin

## 2. Composition

Chemical characterisation: Mixture of hydrocarbons (propane, butane, isobutane)  
Hazardous components:

<u>Chem. Charact.:CAS:</u>	<u>EINECS:</u>	<u>EG-Ind.:</u>	<u>Designation:</u>	<u>R/S</u>	<u>Weight %</u>
Butan 106-97-8	203-448-7	601-004-00-0	F+	12	10-40
Propan 74-98-6	200-827-9	601-003-00-5	F+	12	60-90

## 3. Hazard identification

Hazard designation:

F + Extremely flammable.

Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Warning! Pressurized container.

R 12 Extremely flammable.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 100.0 % by mass of the contents are flammable 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.

## 4. First Aid Measures

Inhalation:

Take into fresh air. If you feel unwell, seek medical advice (show this data sheet).

Skin contact:

Flush with plenty of water immediately, may cause frostbite type of injuries. Consult a physician.

Eye contact:

Flush eyes with plenty of water (10-15min). Call a physician.

Ingestion:

After ingestion call a physician immediately and show packaging or label.

Further Information:

Do not give any adrenaline or kind of adrenaline derivatives.

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## 5. Fire-fighting measures:

### Suitable extinguishing media:

Foam, powder, carbon dioxide, water fog

### Extinguishing media to avoid:

Do not use direct water stream

### Further informations:

Cool containers in the vicinity of the blaze using a water spray. Risk of explosion if heated under confinement. Violent eruption of containers may occur under fire conditions.

## 6. Accidental release measures

Keep away from sources of ignition. No smoking. Do not allow to flow off into the drains. Explosion hazards! Dispose of according to local and national regulation -

## 7. Handling and storage

### Handling:

Only adequately trained personnel should handle this product. Keep out of reach of children.

### Industrial hygiene:

Usual hygienic measures are necessary. When using, do not drink, eat or smoke.

### Storage:

Do not expose to direct sunshine. Store in cool, dry well ventilated area away from sources of ignition and heat.

### Place of storage:

Store in cool, dry place.

## 8. Expositionsbegrenzung und persönliche Schutzausrüstung

### Technical equipment:

Adequate local ventilation. Control airborne concentration below the exposure guideline.

### Control of threshold limits:

<u>CAS-Nr.</u>	<u>Chem. Charact.:</u>		<u>Limits</u>	<u>Unit</u>
106-97-8	n-Butan	MAK	1000 ppm	2350 mg/m <sup>3</sup>
74-98-6	Propan	MAK	1000 ppm	2350 mg/m <sup>3</sup>

### Persönliche Schutzausrüstung:

#### Respiratory protection:

None

#### Hand protection:

None

#### Eye protection:

Safety goggles.

#### Other:

Eye wash fountain area should be located in work area.

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## 9. Physical and chemical properties

<u>Appearance:</u>	Liquified gas
<u>Color:</u>	Colorless
<u>Odour:</u>	Peppermint
<u>Change in physical state:</u>	
<u>Boiling point:</u>	-42°C (Propane)
<u>Ignition temperature:</u>	< 450°C
<u>Flashpoint:</u>	approx. -104°C (Propane)
<u>Explosion limits:</u>	Lower: 1,7 Vol.% Upper: 10,9 Vol.% (Propane)
<u>Vapourpressure:</u>	5 bar at 20°C, 11,6 bar at 50°C
<u>Density:</u>	0,54 g/cm <sup>3</sup> at 20°C (Propane) 0,54 g/cm <sup>3</sup> at 20°C (Butane)
<u>Solubility in water:</u>	Practically not
<u>pH-Value:</u>	not applicable

## 10. Stability and reactivity

### Thermal decomposition:

Danger of explosion above 50 °C. See conditions to avoid see 7.

### Hazardous reactions:

None under normal conditions of storage and use.

## 11. Toxicological information

### Acute toxicity:

-

### Subacute/chronic toxicity:

Signs and symptoms of excessive exposure may be narcotic effects.

### Further informations:

Excessive exposure may cause eye and respiratory irritation

## 12. Ecological information

### German:

„Wassergefährungsklasse“ WGK 0

## 13. Disposal considerations

### Recommendations:

Take to a special waste incineration plant, in line with local regulations.

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## 14. Transport informations

### **Transport at land (GGVS/GGVE):**

GGVS/E Klasse: 2  
Cipher: 5 F  
Kemler-cipher: 23  
Packing group: -  
UN/ID number: 1950  
Labels: Aerosols, flammable

### **Transport at sea (IMDG/GGVSee):**

IMDG/GGVSee-Klasse: 2  
Side: 2102  
UN/ID number: 1950  
EMS-Nummer: 2-13  
MFAG: 620  
Marine pollutant: -  
Technical name: Aerosols, flammable

### **Air transport (ICAO-TI and IATA-DGR):**

ICAO/IATA-Class: 2.1  
UN/ID number: 1950  
Packing group: -  
Labels: Aerosols, flammable

## 15. Regulatory informations

This product requires classification according to the criteria of the EC and the „Gefahrstoffverordnung“

### Hazard designation:

F+ Extremely flammable.

### Risk phrases:

R 12 Extremely flammable

### Safety phrases:

S 9 Keep container in a well-ventilated place  
S 16 Keep away from sources of ignition - No smoking  
S 33 Take precautionary measures against static discharges

Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or incandescent material. Keep out of the reach of children.

## 16. Other informations

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties.