

Weicon GmbH

Revision date: 06.12.2009

Revision no.:

1,00

Freeze-Spray

7619-0093

1. Product and Company Identification**Commercial product name**

Freeze-Spray

Further trade names

11610

Chemical characterization (Mixture)

Propellant: propane/butane

Company/undertaking identification**Manufacturer**

Weicon GmbH

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2. Hazards Identification**Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

Signs and Symptoms of Exposure

DANGER!

Extremely flammable.

Contents under pressure.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

3. Composition/Information on Ingredients**Hazardous components**

CAS No.	Components	Quantity
61641-74-5	Propan/Butan	90 - 100 %

4. First Aid Measures**General information**

Remove contaminated soaked clothing immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

After contact with skin

In case of contact with skin wash off with warm water.

Consult a doctor if skin irritation persists.

After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

If eye irritation persists, consult a specialist.

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After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Advice to physician

The following symptoms may occur:

Anaesthetic state

Headache

Treat symptoms.

If necessary, give oxygen.

Treat symptoms.

If necessary, give oxygen.

5. Fire Fighting Measures

Suitable extinguishing media

Foam

Dry powder

Carbon dioxide

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters

Use breathing apparatus with independent air supply.

Additional information

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental Release Measures

Personal precautions

Keep away sources of ignition.

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Use personal protective clothing.

Environmental precautions

Allow to vaporise.

Methods for cleaning up/taking up

Allow to vaporise.

7. Handling and Storage

Handling

Advice on safe handling

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

The product is combustible.

Keep away from sources of ignition - No smoking.

Do not spray on a naked flame or any other incandescent material.

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Heating will cause pressure rise with risk of bursting.

Further information on handling

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

Storage**Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.

Protect from heat and direct solar radiation.

Storage temperature may not exceed 50°C (=122°F).

Advice on storage compatibility

Incompatible with oxidizing agents.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure Controls/Personal Protection**Exposure limit values****Additional advice on limit values**

Aliphatic hydrocarbon gases (propane/butane/Alkane C1-C4) have workplace limits of 1000 ppm (TWA-ACGIH).

Protective and hygiene measures

Ensure adequate ventilation, especially in confined areas.

Do not inhale gases/vapours/aerosols.

Wash hands before breaks and immediately after handling the product.

At work do not eat, drink, smoke or take drugs.

Take off immediately all contaminated clothing.

Avoid contact with eyes, skin or mucous membrane.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

Hand protection

Protective gloves resistant to chemicals made of nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Safety goggles with side protection

Skin protection

Protective clothing

9. Physical and Chemical Properties**Appearance**

Form:	Aerosol
Color:	Colourless, clear
Odor:	Characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

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Flash point: -60 °C

Explosive properties

"The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated."

Lower explosion limits: 1,5 vol. %

Upper explosion limits: 8,5 vol. %

Vapour pressure: 5000 hPa
(at 20 °C)

Density (at 20 °C): 0,54 g/cm³

Other information

Ignition temperature: 510 °C

10. Stability and Reactivity**Stability**

Stable

Conditions to avoid

Fire or intense heat may cause violent rupture of packages.

Keep away from heat and sources of ignition.

Formation of explosive gas/air mixtures.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

No hazardous decomposition products known.

Possibility of Hazardous Reactions

Will not occur

Additional information

No decomposition if stored and applied as directed.

11. Toxicological Information**Acute toxicity**

Harmful by inhalation.

Empirical data on effects on humans

Irritates respiratory tract.

Inhalation of vapours in high concentration can cause narcotic effects.

12. Ecological Information**Further information**

Do not discharge product unmonitored into the environment.

Product is not allowed to be discharged into aquatic environment.

13. Disposal Considerations**Advice on disposal**

Where possible recycling is preferred to disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Offer empty spray cans to an established disposal company.

14. Transport Information**US DOT 49 CFR 172.101**

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Proper shipping name

AEROSOLS

ID Number:	1950
Hazard Class or Division:	2.1
Packing group:	-
Label:	2.1

Land transport (ADR/RID)

UN number:	1950
ADR/RID class:	2
Warning plate	
Hazard-no.:	-
Hazard label:	2.1



ADR/RID packing group:	-
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Description of the goods

AEROSOLS

Other applicable information

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L, transition period ends 31.12.2010.

Marine transport

UN number:	1950
IMDG code:	2
Marine pollutant:	No
Hazard label:	2.1



IMDG packing group:	-
EmS:	F-D; S-U

Description of the goods

AEROSOLS

Other applicable information

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass)

Air transport

UN/ID number:	1950
ICAO/IATA-DGR:	2.1
Hazard label:	2.1



ICAO packing group:	-
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

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Description of the goods
 AEROSOLS FLAMMABLE

15. Regulatory Information
U.S. Regulations
National Inventory TSCA

All of the components are listed on the TSCA inventory.

SARA

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

State Regulations

This product contains max VOC: 56% (560 g/L)

16. Other Information
Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	4
Physical Hazard:	0

NFPA Hazard Ratings

Health:	1
Flammability:	4
Reactivity:	0
Unique Hazard:	


Other data

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)