

Formula 6

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation:

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Use of the substance/preparation:

Aerosol spray. Pressurized air to remove dust.

Company/undertaking identification:

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Phone: +45 – 49 14 22 00
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+45 – 49 14 22 00

Responsible person for the safety data sheet (e-mail):

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2. Hazards identification

Extremely flammable spray.

3. Composition/information on ingredients

% w/w	Name	CAS-no.	EINECS/ELINCS	Classification
25-50	Propane	74-98-6	200-827-9	F+;R12
25-50	Isobutane (containing $\leq 0,1$ % Butadiene)	75-28-5	200-857-2	F+;R12

Wording of R-phrases - see section 15.

4. First-aid measures

Inhalation:

Remove to fresh air. Keep at rest. If needed: get medical attention.

Skin contact:

Remove contaminated clothing. Wash skin with water and mild soap. If irritation persists: Seek medical advice.

Eye contact:

Flush with water or physiological salt water. If irritation persists: Seek medical advice.

Ingestion:

Rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.

Burns:

Flush with water until pain ceases.

Information:

Show this safety data sheet to a physician or emergency ward.

5. Fire-fighting measures

Precautions against fire:

Do not breathe smoke fumes. Remove containers if possible or keep them cool by spraying with water. Risk of explosion if heated under confinement.

Suitable extinguishing media:

Carbon dioxide, dry chemical, sand, foam or water fog.

Non suitable extinguishing media:

Do not use water jet.

Hazardous combustion or decomposition products:

In case of fire, the product may form hazardous decomposition products such as oxides of carbon.

Protective equipment:

When entering burning area: Wear self contained breathing apparatus.

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6. Accidental release measures

Personal precautions:

Use personal protective equipment - see section 8. Ventilate the area. Remove sources of ignition.

Environmental precautions:

Avoid product entering into drains – see section 12.

Methods for cleaning up:

Wipe up spillage, etc. with paper towels. Clean with water. Further handling of spillage - see section 13.

7. Handling and storage

Safe storage:

Keep in a well-ventilated and cool location. Store in a well-closed original container and in a flammable liquid storage area. Protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray on flames or red-hot objects. Observe official regulations on storing packagings with pressurized containers

Specific use(s):

See section 1.

8. Exposure controls/Personal protection

Exposure limits:

Substance	8-hour TWA	15-min STEL
Propane	1000 ppm = 1800 mg/m ³	2000 ppm = 36000 mg/m ³
Butane	600 ppm = 1450 mg/m ³	750 ppm = 1810 mg/m ³

Exposure controls:

Avoid breathing vapors. Provide sufficient ventilation. Avoid contact with skin, eyes and clothing. Change contaminated clothes. Wash hands and contaminated areas with water and mild soap after use.

The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

Flammable, do not use near fire or sparks. Do not smoke.

Personal protective equipment:**Respiratory protection:**

Normally not necessary if working in well-ventilated area or by short-term use. In case of working in not adequate ventilated areas or prolonged use: Wear self contained breathing apparatus because Propan-2-ol vapours are not absorbed by the filter.

Skin protection:

Use gloves of nitrile rubber or plastic, when there is a risk of prolonged contact with the skin.

Breakthrough time: 3 hours.

Eye protection:

Wear tight fitting safety goggles when risk of splashes.

Environmental exposure controls:

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9. Physical and chemical properties

Appearance:	Clear liquid (under pressure)
Boiling point (°C):	-47
Flash point (°C):	Combustible gas (-100°C)
Explosion limits (%-%):	1.8 – 11.1
Relative density (g/ml) v/25°C:	~ 1
Water solubility:	Slightly soluble

10. Stability and reactivity

Stability:

Stable under the recommended storage conditions (see section 7). Vapours can be ignited by a spark, a hot surface or a glow. Vapours are heavier than air.

Conditions to avoid:

Formation of sparks and glows. Excessive heating and sources of ignition.

Materials to avoid:

May react strongly with oxidizing agents and strong acids.

Hazardous decomposition products:

When heated to high temperatures (decomposition) it emits toxic fumes such as oxides of carbon.

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11. Toxicological information

Routes of exposure:

Skin, lungs and gastrointestinal tract.

Acute toxicity:**Inhalation:**

Vapours and aerosol mist may cause irritation to the airways. Inhalation of larger amounts may induce discomfort, nausea, dizziness, headache, narcosis and unconsciousness.

Skin:

Degreases skin and might cause redness and pain.

Eyes:

May cause irritation with redness.

Ingestion:

May irritate the mucous membranes. May cause symptoms like nausea, vomiting, diarrhoea.

Long term toxicity:

Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver, kidneys, blood or central nervous system. Prolonged or frequent contact can cause eczema and inflammation of the skin as a result of degreasing.

12. Ecological information

Ecotoxicity:

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Mobility:

Propane and Isobutane are gasses and will mix quickly with the surrounding air.

Persistence and degradability:

Propane and Isobutane are readily biodegradable

Bioaccumulative potential:

No significant bioaccumulation is expected (computer model)

Other adverse effects:

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13. Disposal considerations

Aerosol container is not to be pierced or burned, even after use

Comply with national and local regulations. The preparation is to be considered as hazardous waste.

EWC-code:

16 05 04

14. Transport information

UN-no	Proper shipping name	Class	Classification
1950	AEROSOLS	2	5F (ADR/RID)

15. Regulatory information

EC-no.: -

Danger symbol:



Extremely flammable

Content: -

Risk- and Safety-phrases:

R 12: Extremely flammable.

S 9: Keep container in a well-ventilated place.

S 23: Do not breathe vapour/spray.

S 29/56: Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

S 33: Take precautionary measures against static discharges.

S 46: If swallowed, seek medical advice immediately and show this container or label.

S 51: Use only in well-ventilated areas.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. 100% by mass of the contents are flammable. Keep out of reach of children.

Restriction on application:

Must not be used by persons under 18 years of age.

16. Other information

R-phrases mentioned in section 2 and 3:

See section 15.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his task and be familiar with this safety data sheet.

Further information:

The safety data sheet is prepared according to REACH regulation (EC) No. 1907/2006.

Edition No.:	Date (revision):	Changes in section(s):
1	4 April 2008	-

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