

MATERIAL SAFETY DATA SHEET

FORCE DE-ICER AEROSOL	Revision date: 19/01/2010 Replaces: /
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1. IDENTIFICATION OF THE PRODUCT:

Identification : liquid compound in aerosol, data of section 9 only applicable on liquid part
Kind of product : aerosol
Concentration in use : 100 %

2. HAZARDS IDENTIFICATION:

This is a hazardous preparation with following risks: Extremely flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness

3. COMPOSITION AND INFORMATION ON DANGEROUS COMPONENTS:

Dangerous components	%	Symbol	R-Phrases	CAS N°	EINECS N°
Isobutane	25 - 50	F+	12	75-28-5	200-857-2
Isopropanol	25 - 50	F, Xi	11-36-67	67-63-0	200-661-7
Ethyleneglycol	2,5 - 10	Xn	22	107-21-1	203-473-3
Propane	10 - 25	F+	12	74-98-6	200-827-9

4. FIRST AID MEASURES:

Always ask medical advice as soon as possible should serious or continuous disturbances occur

Skin contact : none

Eye contact : rinse first with plenty of water and seek medical attention

Ingestion : rinse mouth with water and and seek medical attention

Inhalation : in case of serious or continous discomforts: remove to fresh air and seek medical attention

5. FIRE FIGHTING MEASURES :

Fire extinguishing agents : CO2, foam, powder, sprayed water

Extinguishing agents to be avoided : none

Special preventive measures in case of fire : none

6. ACCIDENTAL RELEASE MEASURES:

Preventive measures : keep in a sealed container, out of reach of children

Personal safety measures : no eating, drinking or smoking during work

Environmental measures : do not allow to flow into sewers or open water

Measures in case of leakage : dilute with water

7. HANDLING AND STORAGE:

Special preventive measures in handling and storing : keep in a sealed container in a closed, frost-free, ventilated room

Packing materials to be avoided : none

Preventive measures : handle with care to avoid spillage

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Inhalation protection : universal mask

Skin protection : none

Eye protection : goggles

Other protection : none

Follows a list of the hazardous elements mentioned
sub 3. of which the TLV value is known :

- Isopropanol 997 mg/m³
- Ethyleneglycol 52 mg/m³



9. PHYSICAL AND CHEMICAL PROPERTIES:

Melting point/melting range, °C	: 0
Boiling point/Boiling range, °C	: 78 - 192
pH	: /
pH 1% diluted in water	: /
Vapour pressure/20°C, Pa	: 853000
Relative density/20°C	: 0,683
Physical state/20°C	: liquid
Flash point, °C	: 11
Ignition point, °C	: 370
Solubility in water	: completely soluble
Odour	: characteristic
Dynamic viscosity, mPa.s/20°C	: 1
Kinematic viscosity, mm ² /s/20°C	: 1
Volatile organic component (VOC), %	: No data available
Volatile organic component (VOC), g/l	: No data available

10. STABILITY AND REACTIVITY:

Dangerous reactions with : none known
Circumstances to be avoided : none known

11. TOXICOLOGICAL INFORMATION:

About the substance itself : not applicable under actual EEC guidelines for preparations
General information : see ingredients under section 3
Calculated acute toxicity, LD50 Oral Rat: No data available mg/kg

12. ENVIRONMENTAL INFORMATION:

About the substance itself : not applicable under actual EEC guidelines for preparations
General information : see ingredients under section 3
Biological degradability : not applicable
Water hazard class, WGK: No data available

13. DISPOSAL CONSIDERATIONS:

Draining into the sewers is not permitted. Removal should be carried out by licensed services.
Possible restrictive regulations by local authority should always be adhered to.

14. TRANSPORT INFORMATION:

Class & number	:	5F
Identification number of the hazard	:	
Identification number of the substance	:	UN 1950, Aerosols, flammable, , (D)
Labels	:	2.1



15. REGULATORY INFORMATION:

Labels:



Extremely flammable



Irritant

Risk phrases

R12	Extremely flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness

Safety phrases

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S2	Keep out of reach of children.
S3	Keep in a cool place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe spray.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well ventilated areas.

Contains

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Pressurized 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 any incandescent material. Do not smoke.

16. OTHER INFORMATION:

R-Phrases, mentioned in point 3, not of application on the preparation.

Risks connected to the preparation and its hazardous components : R11 Highly flammable. R12 Extremely flammable. R22 Harmful if swallowed. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness

Reason of revision, changes of following items: 9, 16

Composition by regulation (EC) No 648/2004: Aliphatic hydrocarbons >30%

This safety information sheet has been compiled in accordance with annex II of the REACH-directive EG 1907/2006. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care, we cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. It is the responsibility of the user to take the necessary measures in order to comply with the local laws and regulations. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

MSDS reference number : ECM-104675-E