



## SAFETY DATA SHEET DE-ICER

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	DE-ICER
PRODUCT NO.	007
APPLICATION	De-icer
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### 2 HAZARDS IDENTIFICATION

Flammable. Vapours may cause drowsiness and dizziness. Irritating to eyes.

CLASSIFICATION Xi;R36. R10, R67.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ETHANEDIOL	203-473-3	107-21-1	10-30%	Xn;R22
PROPAN-2-OL	200-661-7	67-63-0	30-60%	F;R11 Xi;R36 R67

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

#### INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

#### SKIN CONTACT

Remove contaminated clothing. Wash skin with soap and water. Use suitable lotion to moisturise skin. Get medical attention if any discomfort continues.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if discomfort continues. Make sure to remove any contact lenses from the eyes before rinsing.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

#### SPECIAL FIRE FIGHTING PROCEDURES

Cool containers exposed to flames with water until well after the fire is out.

#### SPECIFIC HAZARDS

Oxides of: Carbon. Nitrogen.

**DE-ICER****6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or onto the ground.

**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Large Spillages Absorb in vermiculite, dry sand or earth and place into containers. Flush area with plenty of water. Ventilate well.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. During application and drying, solvent vapours will be emitted. Avoid inhalation of vapours.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**STORAGE CLASS**

Flammable liquid storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
ETHANEDIOL	WEL		10 mg/m <sup>3</sup>		104 mg/m <sup>3</sup>	Sk
PROPAN-2-OL	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****ENGINEERING MEASURES**

No particular ventilation requirements. Must not be handled in confined space without sufficient ventilation.

**HAND PROTECTION**

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Polyvinyl chloride (PVC). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**OTHER PROTECTION**

Provide eyewash station.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid
COLOUR	Clear Blue
ODOUR	Odour of alcohol
SOLUBILITY	Soluble in water Miscible with Alcohol

**DE-ICER**

RELATIVE DENSITY ~ 0.950 @ 20 °c  
FLASH POINT (°C) 30 CC (Closed cup).  
EVAPORATION RATE < 1 BuAc=1

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid excessive heat for prolonged periods of time.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50 > 4000 mg/kg (oral rat)

**INHALATION**

Vapours may cause headache, fatigue, dizziness and nausea.

**INGESTION**

May cause discomfort if swallowed.

**SKIN CONTACT**

May cause defatting of the skin, but is not an irritant.

**EYE CONTACT**

Irritating to eyes.

**HEALTH WARNINGS**

Because of quantity and composition, the health hazard is small. Serious long-term effects are not known to be related to this type of product.

**ROUTE OF ENTRY**

Skin and/or eye contact.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Not regarded as dangerous for the environment. Do not allow product to enter surface water drains or open water.

LC 50, 96 Hrs, FISH mg/l >1000

EC 50, 48 Hrs, DAPHNIA, mg/l >1000

**DEGRADABILITY**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

The packaging must be empty (drop-free, when inverted)

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS 3

PROPER SHIPPING NAME ALCOHOLS, N.O.S. (PROPAN-2-OL)

**DE-ICER**

UN NO. ROAD	1987	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	30	ADR LABEL NO.	3
HAZCHEM CODE	3Y	CEFIC TEC(R) NO.	30GF1-III
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1987	IMDG CLASS	3
IMDG PAGE NO.	94 (vol 2)	IMDG PACK GR.	III
EMS	F-E, S-D	UN NO. AIR	1987
AIR CLASS	3	AIR PACK GR.	III

**15 REGULATORY INFORMATION**

## LABELLING



Irritant

## RISK PHRASES

R10	Flammable.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

## SAFETY PHRASES

S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S35	This material and its container must be disposed of in a safe way.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## GUIDANCE NOTES

Workplace Exposure Limits EH40.

**16 OTHER INFORMATION**

## GENERAL INFORMATION

This product has been manufactured under ISO 9001 and ISO 14001 Quality and Environmental Management Systems.

Only trained personnel should use this material.

REVISION DATE 04/04/2008

REV. NO./REPL. SDS GENERATED 1

## RISK PHRASES IN FULL

R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R67	Vapours may cause drowsiness and dizziness.

## DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.