



**SAFETY DATA SHEET**  
**Bulk De-Icer**

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

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**2 HAZARDS IDENTIFICATION**

Harmful if swallowed.  
 CLASSIFICATION (1999/45) Xn;R22.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content %	Classification (67/548/EEC)
ETHANEDIOL	203-473-3	107-21-1	30-60%	Xn;R22
LANKROPOL OPA			5-10%	Xi;R36/38.
SODIUM HYDROXIDE	215-185-5	1310-73-2	< 1%	C;R35

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

**4 FIRST-AID MEASURES**

**GENERAL INFORMATION**

If you feel unwell, seek medical advice (show the label where possible). Keep the affected person warm and at rest. Remove contaminated clothing. Wash all contaminated clothing before reuse.

**INHALATION**

Move the exposed person to fresh air at once. Seek medical attention.

**INGESTION**

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

**SKIN CONTACT**

Wash the skin immediately with soap and water. Remove contaminated clothing.

**EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

## Bulk De-Icer

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Ensure adequate ventilation of the working area. Keep personnel away from spill. Evacuate personnel to a safe area.

### ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains.

### SPILL CLEAN UP METHODS

Absorb with sand or other inert absorbent. Transfer to suitable, labelled containers for disposal. Clean and wipe away spillages area thoroughly with plenty of water.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Ensure adequate ventilation of the working area. Keep personnel away from spill. Evacuate personnel to a safe area.

### STORAGE PRECAUTIONS

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

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANEDIOL	WEL		52 mg/m3(Sk)		104 mg/m3(Sk)	
SODIUM HYDROXIDE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

### PROTECTIVE EQUIPMENT



### ENGINEERING MEASURES

Provide adequate ventilation.

### RESPIRATORY EQUIPMENT

Wear suitable respiratory protection.

### HAND PROTECTION

Chemical resistant gloves required for prolonged or repeated contact.

### EYE PROTECTION

Wear approved safety goggles.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid
COLOUR	Blue
RELATIVE DENSITY	1.07 15
pH-VALUE, CONC. SOLUTION	6.0 approximately
FLASH POINT (°C)	116 CC (Closed cup).
AUTO IGNITION	432
TEMPERATURE (°C)	
FLAMMABILITY LIMIT - LOWER(%)	3.2
FLAMMABILITY LIMIT - UPPER(%)	15.3

### Bulk De-Icer

#### 10 STABILITY AND REACTIVITY

**STABILITY**

Stable under normal temperature conditions.

**MATERIALS TO AVOID**

Oxidising agents Flammable/combustible material.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Oxides of: Carbon.

#### 11 TOXICOLOGICAL INFORMATION

**INHALATION**

Vapour may irritate respiratory system or lungs.

**INGESTION**

Harmful if swallowed. Fatal dose in Humans is 100cm3 Significant ingestion will give rise to severe systemic effects with initially symptoms of CNS depression such as muscular discoordination, visual impairment, slurring of speech, and stupor. Symptoms soon progress to vomiting, headache, anuria, pulmonary edema, and unconsciousness, with convulsions. Will cause kidney and liver damage.

**SKIN CONTACT**

Prolonged or repeated exposure may cause severe irritation. May be absorbed through the skin.

**EYE CONTACT**

May cause severe irritation to eyes.

#### 12 ECOLOGICAL INFORMATION

**BIOACCUMULATION**

Will not bio-accumulate.

**DEGRADABILITY**

The product is readily biodegraded in both fresh and salt water.

#### 13 DISPOSAL CONSIDERATIONS

**GENERAL INFORMATION**

Waste is suitable for incineration. Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

#### 14 TRANSPORT INFORMATION

**GENERAL**

Not classified as hazardous under CHIP regulations

#### 15 REGULATORY INFORMATION

**LABELLING**



Harmful

**CONTAINS**

ETHANEDIOL

**RISK PHRASES**

R22

Harmful if swallowed.

**SAFETY PHRASES**

S60

This material and its container must be disposed of as hazardous waste.

#### 16 OTHER INFORMATION

REVISION DATE 24/02/2011

REV. NO./REPL. SDS GENERATED 1

## Bulk De-Icer

REVISION DATE 24/02/2011

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10171

### RISK PHRASES IN FULL

R35 Causes severe burns.

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

### 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.