

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

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

Product name. De-Icer

Company  
Chemical Solutions  
42 Kennel Lane  
Fetcham  
Surrey  
KT22 9PJ

0870 240 8893

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous components Conc. CAS EINECS Risks  
Methanol 1-10% 67-56-1 200-659-6 T;R23/24/25-39/23/24/25  
Ethanol 40-50% 64-17-5 200-578-6 F;R11  
Butane 10-20% 106-97-8 203-448-7 F+;R12  
Ammonium Hydroxide Solution (25%) 0-0.5% C;R34 N;R50

**3. HAZARDS IDENTIFICATION**

Most important hazards. Extremely flammable.

**4. FIRST AID MEASURES**

Skin contact. May cause skin irritation in susceptible persons. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Eye contact. May cause eye irritation with susceptible persons. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Inhalation. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough. Move to fresh air. Consult a physician after significant exposure.

Ingestion. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Consult a physician if necessary.

General advice. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam.

Specific hazards. Extremely flammable. Flash back possible over considerable distance. Vapours may form explosive mixture with air.

Special protective equipment for fire-fighters. Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment.

Environmental precautions. Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up. Soak up with inert absorbent material and dispose of as hazardous waste. After cleaning, flush away traces with water.

## **7. HANDLING AND STORAGE**

Handling. Avoid contact with skin and eyes. Ensure adequate ventilation or exhaust ventilation in the working area. Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from sources of ignition - No smoking.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from food, drink and animal feedingstuffs.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limit(s)

Methanol WEL 8-hr limit ppm: 200

WEL 15 min limit ppm: 250

WEL 8-hr limit mg/m<sup>3</sup>: 266

WEL 15 min limit mg/m<sup>3</sup>: 333

Ethanol WEL 8-hr limit ppm: 1000

WEL 15 min limit ppm: -

WEL 8-hr limit mg/m<sup>3</sup>: 1920

WEL 15 min limit mg/m<sup>3</sup>: -

Butane WEL 8-hr limit ppm: 600

WEL 15 min limit ppm: 750

WEL 8-hr limit mg/m<sup>3</sup>: 1450

WEL 15 min limit mg/m<sup>3</sup>: 1810

Engineering measures. Ensure adequate ventilation, especially in confined areas.

Respiratory protection. Wear self contained breathing apparatus for fire fighting if necessary.

Hand protection. PVC or other plastic material gloves.

Eye protection. Goggles.

Skin and body protection. Wear chemical protective clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Description. Aerosol.

Colour. Colourless.

Odour. Alcoholic.

Flash point -20°C

## **10. STABILITY AND REACTIVITY**

Stability. Stable under normal conditions.

Conditions to avoid. Heat, flames and sparks.

Materials to avoid. Incompatible with oxidizing agents.

## **11. TOXICOLOGICAL INFORMATION**

## **12. ECOLOGICAL INFORMATION**

## **13. DISPOSAL CONSIDERATIONS**

General Information. Dispose of in accordance with local regulations.

## **14. TRANSPORT INFORMATION**

ADR/RID

UN-No 1950 Packing group -

Class 2 Hazard ID -

Proper shipping name AEROSOLS

IMDG-Code

UN-No 1950 Packing group -

Class 2 Marine pollutant .

EmS F-D S-U

IATA-DGR

UN-No 1950 Packing group -

Class 2 Sub-risks see SP63

## **15. REGULATORY INFORMATION**

Labelling. The product is classified and labelled in accordance with Directive 1999/45/EC. The product is classified in accordance with Annex VI to Directive 67/548/EEC.

Symbol(s) F+ - Extremely flammable

R-phrase(s)

R12 - Extremely flammable.

S-phrase(s)

S 2 - Keep out of the reach of children.

S16 - Keep away from sources of ignition - No smoking.

S23 - Do not breathe gas/fumes/vapour/spray.

S24/25 - Avoid contact with skin and eyes.

S51 - Use only in well-ventilated areas.

## **16. OTHER INFORMATION**

Text of R phrases mentioned in Section 2

R11 - Highly flammable.

R12 - Extremely flammable.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R34 - Causes burns.

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R50 - Very toxic to aquatic organisms.

### **Further information.**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The 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, unless specified in the text.

