

# SAFETY DATA SHEET

DE-ICER

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name DE-ICER

Product number K198

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Windscreen Deicer

### 1.3. Details of the supplier of the safety data sheet

Supplier **SELDEN RESEARCH LIMITED**  
STADEN LANE  
BUXTON  
DERBYSHIRE  
SK17 9RZ  
UNITED KINGDOM

Tel. 01298 26226  
Fax. 01298 26540  
email safety@selden.co.uk

### 1.4. Emergency telephone number

National emergency telephone number Mon to Fri 8.30am to 5.00pm - 01298 26226

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification

##### Physical hazards

Aerosol 1 - H222, H229

##### Health hazards

Eye Irrit. 2 - H319 STOT SE 3 - H336

##### Environmental hazards

Not Classified

#### Classification (67/548/EEC or 1999/45/EC)

Xi;R36. F+;R12. R67.

### 2.2. Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

#### Precautionary statements

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- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, eye and face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

### Contains

PROPAN-2-OL

### 2.3. Other hazards

PRESSURISED CONTAINER - increase in temperature to greater than 50C will cause internal pressure to rise potentially causing bursting/explosion.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PROPAN-2-OL</b> CAS number: 67-63-0 EC number: 200-661-7	<b>60-100%</b>
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R67
<b>ETHANEDIOL</b> CAS number: 107-21-1 EC number: 203-473-3	<b>5-10%</b>
<b>Classification</b> Acute Tox. 4 - H302 STOT RE 2 - H373	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Move affected person to fresh air at once. Get medical attention immediately. Keep affected person warm and at rest. For breathing difficulties oxygen may be necessary.

#### Ingestion

Rinse mouth thoroughly with water. Get medical attention. Give plenty of water to drink.

#### Skin contact

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

#### Eye contact

If liquid has entered the eyes, proceed as follows. Get medical attention if any discomfort continues. Continue to rinse for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation

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Irritation of nose, throat and airway. Vapours may cause headache, fatigue, dizziness and nausea.

### **Ingestion**

May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

### **Skin contact**

Prolonged skin contact may cause redness and irritation.

### **Eye contact**

Irritating to eyes. Redness. Pain. Symptoms following overexposure may include the following:

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Notes for the doctor**

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Any spillage needs to be contained and not allowed to enter water courses

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. If leakage cannot be stopped, evacuate area. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Eliminate all sources of ignition.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Use approved respirator if air contamination is above an acceptable level. Avoid inhalation of vapours. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

### **7.2. Conditions for safe storage, including any incompatibilities**

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### Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage description

See product label for detailed usage and instructions.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 104 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

#### Ingredient comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

Use protective gloves.

#### Other skin and body protection

General workwear only

#### Hygiene measures

DO NOT SMOKE IN WORK AREA!

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Aerosol.

#### Flash point

- 74°C

#### Upper/lower flammability or explosive limits

: 1.8

#### Auto-ignition temperature

+ 405°C

#### Comments

Information given relates to total aerosol container contents.

### 9.2. Other information

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### Other information

None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May react with other cleaning chemicals. For specific reactions refer to Section 10.5

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Fire creates: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Vapours/gases/fumes of:

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicological effects

No toxicological data is available for this mixture, however data can be provided for specific raw materials upon request.

### Acute toxicity - oral

#### ATE oral (mg/kg)

8,665.51126516

#### Inhalation

May cause respiratory system irritation. Prolonged inhalation of high concentrations may damage respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

#### Ingestion

May cause burns in mucous membranes, throat, oesophagus and stomach. May cause stomach pain or vomiting.

#### Skin contact

Prolonged or repeated exposure may cause severe irritation.

#### Eye contact

Irritation of eyes and mucous membranes.

## SECTION 12: Ecological Information

### Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

Aquatic toxicity has not been carried out on this product. Data for raw materials contained in this product, when available, can be provided when necessary.

### 12.2. Persistence and degradability

#### Persistence and degradability

The product is biodegradable.

### 12.3. Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

#### Mobility

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The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

### **12.6. Other adverse effects**

None known.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal methods**

Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## **SECTION 14: Transport information**

### **14.1. UN number**

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950

### **14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	AEROSOLS, FLAMMABLE
Proper shipping name (IMDG)	AEROSOLS, FLAMMABLE
Proper shipping name (ICAO)	AEROSOLS, FLAMMABLE
Proper shipping name (ADN)	AEROSOLS, FLAMMABLE

### **14.3. Transport hazard class(es)**

ADR/RID class	2
IMDG class	2.1
ICAO class/division	2.1

### **14.4. Packing group**

Not applicable.

### **14.5. Environmental hazards**

### **14.6. Special precautions for user**

Tunnel restriction code (D)

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## **SECTION 15: Regulatory information**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

#### **EU legislation**

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and

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mixtures (as amended).

### Guidance

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. Approved Classification and Labelling Guide (Sixth edition) L131. CHIP for everyone HSG228.

### 15.2. Chemical safety assessment

No chemical assessment has been carried out as this Safety Data Sheet is for a mixture.

## SECTION 16: Other information

### General information

The following risk phrases relate to the raw materials in the product and not the product itself:-

### Revision comments

Safety Data Sheet revised to be in accordance with EU Regulation No 453/2010 - REACH Regulations.

**Revision date** 02/02/2015

**Revision** 6

### Risk phrases in full

R11 Highly flammable  
R22 Harmful if swallowed.  
R12 Extremely flammable.  
R67 Vapours may cause drowsiness and dizziness.  
R36 Irritating to eyes.

### Hazard statements in full

H222 Extremely flammable aerosol.  
H225 Highly flammable liquid and vapour.  
H229 Pressurised container: may burst if heated  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.