



## SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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### DE-ICER SPRAY

Revision 20  
Revision date 2018-07-05

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

##### 1.1. Product identifier

Product name	DE-ICER SPRAY
Product code	QAFS444

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); ----- [SU21] Consumer uses: Private households (= general public = consumers);
Description	No data is available on this product.

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

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

##### 1.4. Emergency telephone number


Emergency telephone number	01307 463538 8.30am to 17.00pm
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
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##### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H336 - May cause drowsiness or dizziness.

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## 2.2. Label elements

<b>Precautionary Statement: Prevention</b>	P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>Precautionary Statement: Response</b>	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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.
<b>Precautionary Statement: Storage</b>	P403+P235 - Store in a well-ventilated place. Keep cool.

## 2.3. Other hazards

<b>Other hazards</b>	PBT not identified as a PBT substance.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
propan-2-ol	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	70 - 80%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
ethanediol (Ethane-1,2-diol particulate)	603-027-00-1	107-21-1	203-473-3	01-2119456816-28	10 - 20%	Acute Tox. 4: H302;

## Further information

<b>Product Shelf Life</b>	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
<b>Active Ingredients</b>	Ingredients De-Icer Spray - Isopropyl Alcohol, Ethylene Glycol, Less than 5% Non-ionic Surfactant, CI 42090.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air.
<b>Eye contact</b>	Rinse immediately with plenty of water. Contact lenses should be removed.
<b>Skin contact</b>	Remove contaminated clothing. Wash with water and soap as a precaution.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.

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

<b>Inhalation</b>	High concentration of vapour in enclosed space may cause irritation, headaches and nausea. May cause irritation to respiratory system.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	May cause skin dryness and irritation. Prolonged contact may cause defatting of the skin.
<b>Ingestion</b>	May cause irritation to mucous membranes.

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

	TREAT SYMPTOMATICALLY.
<b>Inhalation</b>	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.

## General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

	Highly flammable liquid and vapour. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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## 5.2. Special hazards arising from the substance or mixture

	Highly flammable liquid and vapour. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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## Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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## SECTION 6: Accidental release measures

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

	Wear suitable protective equipment. Highly flammable liquid and vapour. Avoid sparks, flames, heat and sources of ignition.
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### 6.2. Environmental precautions

	Advise local authorities if large spills cannot be contained.
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### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Avoid sparks, flames, heat and sources of ignition.
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### 6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Highly flammable liquid and vapour. Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light. Store in a well-ventilated place. Keep cool. Store in original container. Keep container tightly closed. Keep away from combustible material. Keep out of the reach of children.
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### 7.3. Specific end use(s)

	No data is available on this product.
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## Suitable packaging

	Plastic containers.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

	Occupational exposure controls.
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#### 8.1.1. Exposure Limit Values

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## 8.1.1. Exposure Limit Values

ethanediol (Ethane-1,2-diol particulate)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
ethanediol (Ethane-1,2-diol vapour)	WEL 8-hr limit ppm: 20 WEL 15 min limit ppm: 40 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 52 WEL 15 min limit mg/m3: 104 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
propan-2-ol	WEL 8-hr limit ppm: 400 WEL 15 min limit ppm: 500 WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 999 WEL 15 min limit mg/m3: 1250 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -

DNEL: Derived no-effect level.



## Exposure Pattern - Workers

propan-2-ol	Long-term - inhalation - Systemic effects 500 mg/m <sup>3</sup> Long-term - dermal - Systemic effects 888 mg/kg
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## Exposure Pattern - General population

propan-2-ol	Long-term - inhalation - Systemic effects 89 mg/m <sup>3</sup> Long-term - dermal - Systemic effects 319 mg/kg Long-term - oral - Systemic effects 26 mg/kg
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## 8.2. Exposure controls

	 
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.
Skin protection - Handprotection	Rubber gloves.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	No data available
<b>pH</b>	5.8 - 8.8
<b>Melting point</b>	Not applicable.
<b>Initial boiling point</b>	82 - 83 °C
<b>Flash point</b>	18 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.845 - 0.87 g/cm3
<b>Partition coefficient (n-octanol/water)</b>	Not applicable.
<b>Partition coefficient</b>	Not applicable.
<b>Autoignition temperature</b>	No data available
<b>Viscosity</b>	< 50 centipoise
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

**9.2. Other information**

<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Gas group</b>	No data available
<b>Benzene Content</b>	Not applicable.
<b>Lead content</b>	Not applicable.
<b>VOC (Volatile organic compounds)</b>	No data available

**Water solubility**

soluble.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Highly flammable liquid and vapour. Stable under normal conditions.

**10.2. Chemical stability**

Flammable liquid. Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Oxidising agents. Combustible materials.

**10.4. Conditions to avoid**

Avoid sparks, flames, heat and sources of ignition. Avoid storing in direct Sun Light.

**10.5. Incompatible materials**

Oxidising agents.

**10.6. Hazardous decomposition products**

No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes.

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**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP). based on available data the classification criteria are not met.
Skin corrosion/irritation	based on available data the classification criteria are not met.
Serious eye damage/irritation	Eye Irrit. 2: H319 - Causes serious eye irritation.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	STOT SE 3: H336 - May cause drowsiness or dizziness.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.

**11.1.2. Mixtures**

	No data available.
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**11.1.3. Hazard Information**

	No data available.
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**11.1.4. Toxicological Information**

propan-2-ol	Inhalation Rat LC50/6 h: >10000ppm Dermal Rabbit LD50: 5000.0 mg/kg	Oral Rat LD50: 5000.0 mg/kg
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**SECTION 12: Ecological information****12.1. Toxicity**

propan-2-ol	Daphnia EC50/48h: 100.0000 mg/l Algae EC50/72h: >100 mg/l Golden orfe LC50/48h: >100 mg/l	Fish LC50/96h: 4200.0000 mg/l Green Algae EC50/48h: >100 mg/l
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**12.2. Persistence and degradability**

	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
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**12.3. Bioaccumulative potential**

	No data is available on this product.
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**Partition coefficient**

	DE-ICER SPRAY Not applicable.	propan-2-ol 0.05 log P
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**12.4. Mobility in soil**

	No data is available on this product.
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**12.5. Results of PBT and vPvB assessment**

	No data is available on this product.
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**12.6. Other adverse effects**

	No data available.
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**SECTION 13: Disposal considerations**

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## 13.1. Waste treatment methods

	Dispose of waste and residues in accordance with local authority requirements.
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## General information

	Dispose of in compliance with all local and national requirements.
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## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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## SECTION 14: Transport information

## Hazard pictograms

	
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## 14.1. UN number

	UN1219
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## 14.2. UN proper shipping name

	ISOPROPYL ALCOHOL
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## 14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

## 14.4. Packing group

Packing group	II
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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## 14.6. Special precautions for user

	No additional special precautions.
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## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

	Not applicable.
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## ADR/RID

Hazard ID	33
Tunnel Category	(D/E)

## IMDG

EmS Code	F-E S-D
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## IATA

Packing Instruction (Cargo)	364
Maximum quantity	60 L
Packing Instruction (Passenger)	353
Maximum quantity	5 L

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>Regulations</b>	<p>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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p> <p>COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.</p>
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**15.2. Chemical safety assessment**

	No information available.
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**SECTION 16: Other information****Other information**

<b>Revision</b>	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> <li>4 - Eye contact.</li> <li>9 - 9.2. Other information (VOC (Volatile organic compounds)).</li> <li>9 - 9.2. Other information (Product Subcategory).</li> <li>11 - 11.1.4. Toxicological Information.</li> <li>11 - 11.1. Information on toxicological effects.</li> <li>11 - Serious eye damage/irritation.</li> <li>11 - STOT-single exposure.</li> <li>12 - 12.1. Toxicity.</li> <li>16 - Data sources.</li> <li>16 - Maximum content of VOC.</li> </ul>
<b>Data sources</b>	<p>Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008:.</p> <p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour. - Flash Point - 18 degC.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation. - Calculation Method.</p> <p>STOT SE 3: H336 - May cause drowsiness or dizziness. - Calculation Method.</p>
<b>Text of Hazard Statements in Section 3</b>	<p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>STOT SE 3: H336 - May cause drowsiness or dizziness.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p>

**Further information**

	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.</p>
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