



## SAFETY DATA SHEET according to Regulation (EU) 2020/878

Page 1/9

### DE-ICER SPRAY

Revision 22  
Revision date 2022-11-14

#### 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	De-Icer Spray to melt Ice.

##### 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 address of the competent person	nigel@superfine.co.uk

##### 1.4. Emergency telephone number



Emergency telephone number	01307 463538 8.30am to 17.00pm  For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)  If you are a healthcare professional with an enquiry please visit <a href="http://www.TOXBASE.org">www.TOXBASE.org</a>
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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	 
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## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## 2.2. Label elements

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.
Precautionary Statement: Prevention	P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary Statement: Response	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.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
SUPPLEMENTAL HAZARD INFORMATION	Ingredients - Isopropyl Alcohol, Ethylene Glycol, Less than 5% Non-ionic surfactants, CI 42090. Contains - Propan-2-ol, Ethanediol.

## 2.3. Other hazards

Other hazards	This substance/mixture is not classified as PBT or vPvB according to current criteria. The substance/mixture does not contain substances with endocrine disrupting properties.
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## Further information

	RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.
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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;

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

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

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

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

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

	TREAT SYMPTOMATICALLY.
Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.

## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

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

Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.
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**General information**

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

	Highly flammable liquid and vapour. Use extinguishing media appropriate to the surrounding fire conditions.
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**5.2. Special hazards arising from the substance or mixture**

	Highly flammable liquid and vapour.
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**5.3. Advice for firefighters**

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.
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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)**

	De-Icer Spray to melt Ice.
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**Suitable packaging**

	Plastic containers.
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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

## DE-ICER SPRAY

Revision 22  
Revision date 2022-11-14

## 8.1. Control parameters

Occupational exposure controls.

## 8.1.1. Exposure Limit Values

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

## 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

## 8.2. Exposure controls

8.2.1. Appropriate engineering 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.	
	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	Nitrile Gloves.
Respiratory protection	No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.	

## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## 8.2. Exposure controls

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

Appearance	Liquid
Colour	Clear
Odour	Characteristic
Odour threshold	No data available
pH	5.8 - 8.8
Melting point	Not applicable.
Initial boiling point	82 - 83 °C
Flash point	18 °C
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	0.845 - 0.87 g/cm <sup>3</sup>
Partition coefficient (n-octanol/water)	Not applicable.
Partition coefficient	Not applicable.
Autoignition temperature	No data available
Viscosity	< 50 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

## 9.2. Other information

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

## Water solubility

	soluble.
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## 9.2.1. Information with regard to physical hazard classes

	No data is available on this product.
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## 9.2.2. Other safety characteristics

	No data is available on this product.
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Highly flammable liquid and vapour. Stable under normal conditions.
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## 10.2. Chemical stability

	Flammable liquid. Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No data is available on this product.
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## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## 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. Combustible materials.

## 10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

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. Oral ATE = >2,000 mg/kg.
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.
Repeated or prolonged exposure	based on available data the classification criteria are not met.

## 11.1.2. Mixtures

No data available.

## 11.1.3. Hazard Information

No data available.

## 11.1.4. Toxicological Information

propan-2-ol	Inhalation Rat LC50/6 h: >10000ppm Dermal Rabbit LD50: 13900 mg/kg	Oral Rat LD50: 5840 mg/kg
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## 11.2 Information on other hazards

No data is available on this product.

## SECTION 12: Ecological information

## 12.1. Toxicity

propan-2-ol	Daphnia EC50/48h: 10000.0000 mg/l Fathead minnows LC50/96h: 9640 mg/l	Fish LC50/96h: 4200.0000 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.

## 12.3. Bioaccumulative potential

The product is not bioaccumulating.

## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## Partition coefficient

DE-ICER SPRAY Not applicable.

propan-2-ol 0.05 log P

## 12.4. Mobility in soil

This product is soluble in water.

## 12.5. Results of PBT and vPvB assessment

This substance/mixture is not classified as PBT or vPvB according to current criteria.

## 12.6 Endocrine disrupting properties

No data is available on this product.

## 12.7. Other adverse effects

No data is available on this product.

## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

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

## General information

Dispose of in compliance with all local and national requirements.

## 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.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN1219

## 14.2. UN proper shipping name

ISOPROPYL ALCOHOL

## 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

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## 14.6. Special precautions for user

No additional special precautions.

## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## 14.7 Maritime Transport in bulk according to IMO instruments

Not applicable.

## 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

## SECTION 15: Regulatory information

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

Regulations	<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> <p>COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).</p>
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## 15.2. Chemical safety assessment

No information available.

## SECTION 16: Other information

## Other information

Revision	<p>This document differs from the previous version in the following areas:</p> <ul style="list-style-type: none"> <li>2 - Other hazards.</li> <li>2 - Hazard pictograms.</li> <li>2 - Further information.</li> <li>2 - SUPPLEMENTAL HAZARD INFORMATION.</li> <li>9 - 9.2.2. Other safety characteristics.</li> <li>9 - 9.2.1. Information with regard to physical hazard classes.</li> <li>11 - Acute toxicity.</li> <li>11 - Repeated or prolonged exposure.</li> <li>11 - 11.2 Information on other hazards.</li> <li>12 - 12.1. Toxicity.</li> <li>12 - 12.6 Endocrine disrupting properties.</li> <li>12 - 12.7. Other adverse effects.</li> <li>15 - Regulations.</li> </ul>
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation



## DE-ICER SPRAY

Revision 22

Revision date 2022-11-14

## Other information

<b>Text of Hazard Statements in Section 3</b>	(EC) No. 1272/2008, as retained and amended in UK law. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. - Flash Point - 18 degC. Eye Irrit. 2: H319 - Causes serious eye irritation. - Calculation Method. STOT SE 3: H336 - May cause drowsiness or dizziness. - Calculation Method. 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. Acute Tox. 4: H302 - Harmful if swallowed.
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## Further information

	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.
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