

## SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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### SUPAGARD 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 | SUPAGARD DE-ICER SPRAY |
|--------------|------------------------|

##### 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);<br>----- |
|-------------|---|

|             |  |
|-------------|--|
| Description | [SU21] Consumer uses: Private households (= general public = consumers);<br>De-Icer Spray to melt Ice. |
|-------------|--|

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

|                                       |  |
|---------------------------------------|--|
| Company                               | SUPAGARD LIMITED                                       |
| Address                               | 19-27 Gavinton Street<br>Muirend<br>Glasgow<br>G44 3EF |
| Web                                   | www.supagard.com                                       |
| Telephone                             | 0141 633 5933  |
| Fax                                   | 01416377219  |
| Email                                 | James.Smyth@supagard.com                               |
| Email address of the competent person | James.Smyth@supagard.com                               |

##### 1.4. Emergency telephone number

|                            |   |
|----------------------------|---|
| Emergency telephone number | 01416335933<br>8.30am to 5.00pm<br><br>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)<br><br>If you are a healthcare professional with an enquiry please visit <a href="http://www.TOXBASE.org">www.TOXBASE.org</a> |
|----------------------------|---|

#### 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; |
|--------------------------------------|--|

##### 2.2. Label elements

|                   |   |
|-------------------|---|
| Hazard pictograms |  |
|-------------------|---|

|             |        |
|-------------|--------|
| Signal Word | Danger |
|-------------|--------|

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## 2.2. Label elements

|  |  |
|--|--|
| <b>Hazard Statement</b>                    | Flam. Liq. 2: H225 - Highly flammable liquid and vapour.<br>Eye Irrit. 2: H319 - Causes serious eye irritation.<br>STOT SE 3: H336 - May cause drowsiness or dizziness.  |
| <b>Precautionary Statement: Prevention</b> | P102 - Keep out of reach of children.<br>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.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>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.   |
| <b>SUPPLEMENTAL HAZARD INFORMATION</b>     | Ingredients - Isopropyl Alcohol, Ethylene Glycol, Less than 5% Non-ionic surfactants, CI 42090.<br>Contains - Propan-2-ol, Ethanediol.   |

## 2.3. Other hazards

|                      |  |
|----------------------|--|
| <b>Other hazards</b> | 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. |
|----------------------|--|

## Further information

|  |  |
|--|--|
|  | RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY. |
|--|--|

## 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

|                     |   |
|---------------------|---|
| <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

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | TREAT SYMPTOMATICALLY.<br>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.  |

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## General information

|  |   |
|--|---|
|  | If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically. |
|--|---|

**SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

|  |   |
|--|---|
|  | Highly flammable liquid and vapour. Use extinguishing media appropriate to the surrounding fire conditions. |
|--|---|

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

|  |                                     |
|--|-------------------------------------|
|  | Highly flammable liquid and vapour. |
|--|-------------------------------------|

## 5.3. Advice for firefighters

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

## 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. |
|--|---|

**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. |
|--|---|

## 6.2. Environmental precautions

|  |   |
|--|---|
|  | Advise local authorities if large spills cannot be contained. |
|--|---|

## 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. |
|--|--|

## 6.4. Reference to other sections

|  |  |
|--|--|
|  | See section 2, 7, 8, 13 for further information. |
|--|--|

**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

|  |   |
|--|---|
|  | Adopt best Manual Handling considerations when handling, carrying and dispensing. |
|--|---|

## 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. |
|--|---|

## 7.3. Specific end use(s)

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

## Suitable packaging

|  |                     |
|--|---------------------|
|  | Plastic containers. |
|--|---------------------|

**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

|  |                                 |
|--|---------------------------------|
|  | Occupational exposure controls. |
|--|---------------------------------|

## 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: -<br>WEL 15 min limit ppm: -<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: -     | WEL 8-hr limit mg/m3: 10<br>WEL 15 min limit mg/m3: -<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>WEL 15 min limit mg/m3 total respirable dust: -     |
| ethanediol (Ethane-1,2-diol vapour)      | WEL 8-hr limit ppm: 20<br>WEL 15 min limit ppm: 40<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: -   | WEL 8-hr limit mg/m3: 52<br>WEL 15 min limit mg/m3: 104<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>WEL 15 min limit mg/m3 total respirable dust: -   |
| propan-2-ol                              | WEL 8-hr limit ppm: 400<br>WEL 15 min limit ppm: 500<br>WEL 8-hr limit mg/m3 total inhalable dust: -<br>WEL 8-hr limit mg/m3 total respirable dust: - | WEL 8-hr limit mg/m3: 999<br>WEL 15 min limit mg/m3: 1250<br>WEL 15 min limit mg/m3 total inhalable dust: -<br>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><br>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><br>Long-term - dermal - Systemic effects 319 mg/kg<br>Long-term - oral - Systemic effects 26 mg/kg |
|-------------|---|

## 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        | Nitrile 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>Relative Vapour Density</b>                 | No data available              |
| <b>Density / Relative Density</b>              | 0.845 - 0.87 g/cm <sup>3</sup> |
| <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. |
|--|----------|

**9.2.1. Information with regard to physical hazard classes**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**9.2.2. Other safety characteristics**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**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**

|  |                                       |
|--|---------------------------------------|
|  | No data is available on this product. |
|--|---------------------------------------|

**10.4. Conditions to avoid**

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

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## 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.<br>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<br>Dermal Rabbit LD50: 13900 mg/kg | Oral Rat LD50: 5840 mg/kg |
|-------------|---|---------------------------|

## 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<br>Fathead minnows LC50/96h: 9640 mg/l | Fish LC50/96h: 4200.0000 mg/l |
|-------------|--|-------------------------------|

## 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.

## Partition coefficient

SUPAGARD DE-ICER SPRAY Not applicable.

propan-2-ol 0.05 log P

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## 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.

## 14.7 Maritime Transport in bulk according to IMO instruments

Not applicable.

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|                                 |         |
|---------------------------------|---------|
| <b>ADR/RID</b>                  |         |
| Hazard ID                       | 33      |
| Tunnel Category                 | (D/E)   |
| <b>IMDG</b>                     |         |
| EmS Code                        | F-E S-D |
| <b>IATA</b>                     |         |
| 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**

|                    |  |
|--------------------|--|
| <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> <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> |
|--------------------|--|

**15.2. Chemical safety assessment**

|  |                           |
|--|---------------------------|
|  | No information available. |
|--|---------------------------|

**SECTION 16: Other information**

|                          |   |
|--------------------------|---|
| <b>Other information</b> |   |
| <b>Revision</b>          | <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> |
| <b>Data sources</b>      | <p>Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008, as retained and amended in UK law.</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>   |



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## Other information

|  |  |
|--|--|
| Text of Hazard Statements in Section 3 | 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.

## 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. |
|--|--|