



# DE-ICER

REMOVES FROST AND ICE  
WITH EASE

 LEXUS  
CARE

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# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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## DE-ICER SPRAY

Revision 10

Revision date 2013-03-13

### 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

Description	An easy to use cold weather screen de-icing spray.
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#### 1.3. Details of the supplier of the safety data sheet

Company	SUPAGARD LIMITED
Address	19-27 Gavinton Street Muirend Glasgow G44 3EF
Web	www.supagard.co.uk
Telephone	0141 633 5933

#### Local Supplier

Company	SUPAGARD LTD
Address	19-27 Gavinton Street Muirend Glasgow G44 3EF
Web	www.supagard.co.uk
Telephone	0141 633 5933

#### 1.4. Emergency telephone number


Emergency telephone number	+44 (0)870 190 6777
Company	National Emergency Centre

### SECTION 2: Hazards identification

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

2.1.1. Classification - 1999/45/EC	F; R11 Symbols: F: Highly flammable.
Main hazards	Highly flammable.

#### 2.2. Label elements

Symbols	F: Highly flammable. 
Risk phrases	R11 - Highly flammable.
Safety phrases	S2 - Keep out of the reach of children. S16 - Keep away from sources of ignition - No smoking.

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## 2.2. Label elements

S25 - Avoid contact with eyes.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## Further information

No Data Available.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
C.I. Acid Blue 1		129-17-9			0 - 0.5%	
C9-11 Alcohol ethoxylate		68439-46-3			0 - 0.5%	Xn; R22 Xi; R41
Ethyl alcohol (Ethanol)	603-002-00-5	64-17-5	200-578-6		70 - 80%	F; R11
Mono ethylene glycol (Ethane-1,2-diol particulate)	603-027-00-1	107-21-1	203-473-3		10 - 20%	Xn; R22

## Further information

## Product Description &amp; Uses

An easy to use cold weather screen de-icing spray.

## Product Shelf Life

RECOMMENDED SHELF LIFE 1 YEAR FROM DATE OF DELIVERY.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

Inhalation	If breathed in, move person into fresh air. Seek medical attention. Inhalation may cause nausea and vomiting. May cause dizziness and headache.
Eye contact	If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	In case of contact, immediately flush skin with soap and plenty of water. Seek medical attention if irritation or symptoms persist.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, seek medical advice immediately and show this container or label. Drink 1 to 2 glasses of water.

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

Inhalation	No Data Available.
Eye contact	No Data Available.
Skin contact	No Data Available.
Ingestion	No Data Available.

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

No Data Available.

## General information

If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off immediately all contaminated clothing.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions. Alcohol resistant foam. Water spray. Do NOT use water jet.

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

Do not use a solid water stream as it may scatter and spread fire. Exposure to decomposition products may be a hazard to health. Hazardous decomposition products may be formed under fire

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

	conditions.
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## 5.3. Advice for firefighters

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear. In the event of a fire and/or explosion do not breath fumes.
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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. Cool fire exposed containers with waterspray.
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## SECTION 6: Accidental release measures

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

	See section 7 & 8 for further information. Use appropriate personal protective equipment. Eliminate all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid inhalation of vapour or spray/mist. Immediately evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours are heavier than air. Vapours can accumulate in low areas.
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### 6.2. Environmental precautions

	Do not allow product to enter drains.
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### 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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### 6.4. Reference to other sections

	See chapter: 7, 8, 11, 12 and 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	For personal protection see section 8. Do not breathe vapours or spray mist. Avoid contact with eyes and skin. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Use in a well ventilated area. Keep away from sources of ignition - No smoking. Vapours are heavier than air. R18 - In use, may form flammable/explosive vapour-air mixture. Normal measures for preventative fire protection. Keep away from sources of ignition - No smoking. Vapours are heavier than air. Vapours can accumulate in low areas. Vapours may form explosive mixtures with air.
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### 7.2. Conditions for safe storage, including any incompatibilities

	Keep out of the reach of children. Store in original container. Keep container tightly closed and in a well-ventilated place. Keep container tightly closed in a cool place. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers may still contain significant residual amounts of the product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested seek medical advice immediately and show container label if possible. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, acids. Keep cool. Protect from sunlight. Keep in tightly closed, clearly labelled containers. No Smoking. Naked flames, hot elements or other ignition sources must not be present. Keep only in the original container in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.
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### Suitable packaging

	Plastic containers.
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### 7.3. Specific end use(s)

	An easy to use cold weather screen de-icing spray.
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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## 8.1. Control parameters

	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and skin. Avoid inhalation of vapour or spray/mist. Avoid prolonged or repeated exposure. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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### 8.1.1. Exposure Limit Values

Ethyl alcohol (Ethanol)	WEL 8-hr limit ppm: 1000	WEL 8-hr limit mg/m <sup>3</sup> : 1920
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : -
Mono ethylene glycol (Ethane-1,2-diol particulate)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : -
Mono ethylene glycol (Ethane-1,2-diol vapour)	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m <sup>3</sup> : 52
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m <sup>3</sup> : 104

## 8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing.
Eye / face protection	Avoid contact with eyes. In case of splashing, wear: Safety glasses. Provide eye wash station.
Skin protection - Handprotection	Chemical resistant gloves (PVC). Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Skin protection - Other	Wear suitable gloves and eye/face protection. Wear suitable protective clothing. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Chemical resistant gloves. Choose body protection according to the amount and concentration of the dangerous substance at/in the work place. Flame retardant antistatic protective clothing in accordance with the concentration and volume of product being used /handled.
Respiratory protection	Wear suitable respiratory equipment when necessary. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with filter type A.
Thermal hazards	Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers may still contain residual amounts of the product. Do not ingest. Do not breath gas/fumes/vapour/spray. Keep cool. Protect from sunlight. Keep empty containers labelled as they contain vapour and liquid product.
8.2.3. Environmental exposure controls	Avoid release to the environment. Refer to special instructions/Safety data sheets. Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer systems. If the product contaminates rivers and lakes or drains inform respective authorities. Users should be aware of environmental consideration and their duties under the environmental protection act. Further advise may be found on various government website: e.g <a href="http://www.dti.gov.uk/access/index.htm">www.dti.gov.uk/access/index.htm</a> and <a href="http://www.envirowise.gov.uk">www.envirowise.gov.uk</a> .

### Further information

	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and skin. Avoid inhalation of vapour or spray/mist. Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. When using do not eat, drink or smoke.
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## SECTION 9: Physical and chemical properties

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

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	5.8 to 7.8
<b>Melting point</b>	Not applicable.
<b>Boiling point</b>	No data available
<b>Flash point</b>	20
<b>Flammability limits</b>	Not applicable.
<b>Vapour Flammability</b>	Not applicable.
<b>Upper Explosive Limit</b>	No data available
<b>Lower Explosive Limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density</b>	0.845 to 0.855
<b>Soluble in</b>	Not applicable.
<b>Miscible in</b>	Not applicable.
<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>	<50cps
<b>Explosive</b>	No data available
<b>Oxidising</b>	No data available

## 9.2. Other information

<b>SADT</b>	No data available
<b>Conductivity</b>	No data available
<b>Surface tension</b>	No data available
<b>Bulk Density</b>	Not applicable.
<b>Softening point</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Sublimation Point</b>	Not applicable.
<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>	≤ 80
<b>Redox Potential</b>	Not applicable.
<b>Radical Formation Potential</b>	Not applicable.
<b>Photocatalytic Properties</b>	Not applicable.
<b>Electrical Resistance</b>	Not applicable.
<b>Total Solids</b>	Not applicable.

## Water solubility

soluble.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No Data Available.

## 10.2. Chemical stability

Stable under normal conditions.

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**10.3. Possibility of hazardous reactions**

	Stability: No decomposition if stored and applied as directed. Vapours may form explosive mixtures with air.
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**10.4. Conditions to avoid**

	Heat, sparks and open flames.
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**10.5. Incompatible materials**

	Strong acids. Strong oxidising agents.
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**10.6. Hazardous decomposition products**

	Carbon oxides.
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**Further information**

	No Data Available.
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**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

<b>Acute toxicity</b>	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Inhalation may cause nausea and vomiting. May cause dizziness and headache.
<b>Skin corrosion/irritation</b>	Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Repeated or prolonged exposure may cause dermatitis.
<b>Respiratory or skin sensitisation</b>	No data is available on this product.
<b>Germ cell mutagenicity</b>	No data is available on this product.
<b>Carcinogenicity</b>	No data is available on this product.
<b>Reproductive toxicity</b>	No data is available on this product.
<b>STOT-single exposure</b>	No Data Available.
<b>STOT-repeated exposure</b>	No Data Available.
<b>Aspiration hazard</b>	No Data Available.
<b>Repeated or prolonged exposure</b>	Prolonged or repeated exposure may cause irritation to skin and mucous membranes. May cause dermatitis.

**11.1.4. Toxicological Information**

	No Data Available.
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**SECTION 12: Ecological information****12.1. Toxicity**

	No data is available on this product.
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**12.2. Persistence and degradability**

	Readily biodegradable. Evaporates readily.
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**12.3. Bioaccumulative potential**

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

	Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains.
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**Further information**

	No data is available on this product.
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**SECTION 13: Disposal considerations**

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## 13.1. Waste treatment methods

	Dispose of according to national and local authority regulations for special waste via an appropriately licensed waste contractor. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. This material and its container must be disposed of as hazardous waste. Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local waste disposal authority. Do not puncture or incinerate even when empty.
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## General information

	Dispose of in compliance with all local and national regulations.
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## Disposal methods

	Dispose of this material and its container to hazardous or special waste collection point. Dispose of waste and residues in accordance with local authority requirements.
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## Disposal of packaging

	Dispose of this material and its container to hazardous or special waste collection point. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.
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## Further information

	Dispose of waste and residues in accordance with local authority requirements.
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## SECTION 14: Transport information

## Hazard pictograms

	
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## 14.1. UN number

	UN1170
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## 14.2. UN proper shipping name

	ETHANOL SOLUTION
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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	III
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## 14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

## ADR/RID

Hazard ID	30
Tunnel Category	(D/E)

## IMDG

EmS Code	F-E S-D
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## IATA

Packing Instruction (Cargo)	366
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IATA	
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L

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

Regulations	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. 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.
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**15.2. Chemical safety assessment**

	No Data Available.
Further information	
	No Data Available.

**SECTION 16: Other information****Other information**

Text of risk phrases in Section 3	R11 - Highly flammable. R22 - Harmful if swallowed. R41 - Risk of serious damage to eyes.
Maximum content of VOC	80.

**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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