SAFETY DATA SHEET

according to Regulation (EU) 2015/830

De-Icer

Revision 0
Revision date 17.11.22

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

1.1. Product identifier

Product name	De-Icer

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

Product Use	[SU21] Consumer uses: Private households (= general public = consumers); ----- [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen);
Description	Windscreen Cleaner.

1.3. Details of the supplier of the safety data sheet

Company	Future Developments Manufacturing Ltd
Address	Davenport Street Burslem Stoke on Trent ST6 4HS Staffordshire
Web	www.fdev.co.uk
Telephone	01782 826870
Fax	01782 816392
Email	sales@fdev.co.uk
Email address of the competent person	support@fdhost.co.uk

1.4. Emergency telephone number

Emergency telephone number	01782 829000 9.00am-5.00pm Mon - Fri

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.
2.1.2. Classification - EC 1272/2008	Flam. Liq. 2: H225; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger

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2.2. Label elements

Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting// equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P264 - Wash thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P370+P378 - In case of fire: Use to extinguish.
Precautionary Statement: Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to local and national regulations

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	M-factor.
Isopropanol	603-117-00-0	67-63-0	200-661-7		1 - 10%	F; R11 Xi; R36 R67	
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		0 - 0.5%	C; R35	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
trisodium nitrilotriacetate	607-620-00-6	5064-31-3	225-768-6		0 - 0.5%	Carc. 2: H351; Acute Tox. 4: H302; Eye Irrit. 2: H319;	
Isopropanol	603-117-00-0	67-63-0	200-661-7		1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	See section 4.1 for further information.
Eye contact	See section 4.1 for further information.
Skin contact	See section 4.1 for further information.
Ingestion	See section 4.1 for further information.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Burning produces irritating, toxic and obnoxious fumes. Vapour may travel considerable distance to source of ignition and flash back.

5.3. Advice for firefighters

Self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment. Eliminate all sources of ignition. Evacuate personnel to a safe area.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

See section 2,3,8,13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

7.3. Specific end use(s)

See section 1.2 for further information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

See section 8.2 for further information.

8.1.1. Exposure Limit Values

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8.1.1. Exposure Limit Values

Isopropanol	**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**
Sodium hydroxide	**WEL 8-hr limit ppm: -**	**WEL 8-hr limit mg/m3: -**
	WEL 15 min limit ppm: -	**WEL 15 min limit mg/m3: 2**
	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**

8.2. Exposure controls



8.2.1. Appropriate engineering Controls	**Ensure adequate ventilation of the working area.**
8.2.2. Individual protection	**Wear chemical protective clothing.**
8.2.2. Individual protection	**Approved safety goggles.**
Eye / face protection	**Chemical resistant gloves (PVC).**
Hand protection	
Respiratory	**Wear suitable respiratory equipment when necessary.**

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	**Liquid**
Colour	**Various**
Odour	**Characteristic**
Melting point	**No data available**
Freezing Point	**No data available**
Initial boiling point	**No data available**
Flash point	**13**
Flammability (solid, gas)	**No data available**
Autoignition temperature	**No data available**
Explosive properties	**No data available**
Relative density	**No data available**
Partition coefficient	**No data available**
Viscosity	**No data available**
Evaporation rate	**No data available**
Fat Solubility	**No data available**
Oxidising properties	**No data available**

9.2. Other information

Conductivity	**No data available**
Surface tension	**No data available**

SECTION 10: Stability and reactivity

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10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidising agents.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data is available on this product.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Serious eye damage/irritation	Irritating to eyes.
Respiratory or skin Sensitisation	No sensitizaton effects reported.
Repeated or prolonged exposure	Prolonged exposure may result in skin irritation. Wear suitable protective glovess at all times.

11.1.4. Toxicological Information

Screen Wash	Oral Rat LD50: 4570 mg/kg	Dermal Rabbit LD50: 13400 mg/kg
Sodium hydroxide	Oral Rat LD50: 2000 mg/kg	

SECTION 12: Ecological information

12.1. Toxicity

Sodium hydroxide	Fish LC50/96h: 45.400000 mg/l	Daphnia LC50/24h: 76 mg/l

12.2. Persistence and degradability

The product is expected to be biodegradable.

12.3. Bio accumulative potential

Partition coefficient

Screen Wash No data available

Further information

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Water hazard class 1 : slightly hazardous for water.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must be disposed of in accordance with local and national regulations.

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

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Hazard pictograms



14.1. UN number

	UN1219

14.2. UN proper shipping name

	ISOPROPANOL

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	Yes
Marine pollutant	Yes

ADR/RID

Hazard ID	33
Tunnel Category	(D/E)

IMDG

EmS Code	F-E S-D

IATA

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

Further information

	The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

	The classification detailed on this safety data sheet refers to the neat material only. Dilution of the product may reduce the classification. This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & (EC) No. 1272/2208 & (EC) 1999/45.

15.2. Chemical safety assessment

	No information available.

SECTION 16: Other information

Other information

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Other information

Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2: H319 - Causes serious eye irritation. Carc. 2: H351 - Suspected of causing cancer. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness.

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.