



SAFETY DATA SHEET

Screenwash De-Icer - Electrajet

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

1.1. Product identifier

Product name Screenwash De-Icer - Electrajet

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

Identified uses Vehicle Screenwash

Uses advised against This product is not recommended for any other purpose than stated above.

1.3. Details of the supplier of the safety data sheet

Supplier Electrajet
Unit J3
Glasgow North Trading Estate,
24 Craigmont Street,
Glasgow
G20 9BT
0141 946 0441

sales@electrajet.co.uk

1.4. Emergency telephone number

Emergency telephone As Above - Opening Hours 9 am - 4 pm (Monday - Friday)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 3 - H226

Health hazards Eye Irrit. 2 - H319 STOT SE 3 - H336

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi;R36. R10,R67.

2.2. Label elements

Pictogram



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
Contains	Isopropyl Alcohol
Supplementary precautionary statements	<p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p>

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Isopropyl Alcohol			10-30%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457553-25	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225		F;R11 Xi;R36 R67	
Eye Irrit. 2 - H319			
STOT SE 3 - H336			
STOT SE 3 - H336			
2-Butoxyethanol			1-5%
CAS number: 111-76-2	EC number: 203-905-0		
Classification		Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302		Xn;R20/21/22 Xi;R36/38	
Acute Tox. 4 - H312			
Acute Tox. 4 - H332			
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Immediately remove any clothing soiled by the product.
Inhalation	Supply fresh air; consult doctor in case of complaints.
Ingestion	DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if irritation or symptoms persist.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation	Difficulty in breathing. Headache. Coughing, chest tightness, feeling of chest pressure. Nausea, vomiting.
Ingestion	May cause stomach pain or vomiting. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Water spray. Alcohol-resistant foam. Carbon dioxide or dry powder.
Unsuitable extinguishing media	Water with full jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Fire creates: Carbon monoxide (CO).
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5.3. Advice for firefighters

Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters	Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Remove all sources of ignition. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. If substance has entered a water course or sewer or contaminated soil or vegetation, advise the appropriate authorities.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Do not use sawdust or other combustible material. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Container must be kept tightly closed when not in use. Ensure adequate ventilation of the working area. Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Protect from heat.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Avoid contact with oxidising agents. Avoid acids. Keep container tightly closed. Avoid direct sunlight. Do not store near heat sources or expose to high temperatures.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Isopropyl Alcohol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

2-Butoxyethanol

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 123 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 246 mg/m³(Sk)

WEL = Workplace Exposure Limit

2-Butoxyethanol (CAS: 111-76-2)

DNEL

Consumer - Oral; Long term systemic effects: 3.2 mg/kg/day
Worker Inhalation Long Term Systemic Effects 98 mg/m³
Consumer - Dermal; Short term systemic effects: 44.5 mg/kg/day
Industry - Dermal; Short term systemic effects: 89 mg/kg/day
Consumer - Dermal; Long term systemic effects: 38 mg/kg/day
Industry - Dermal; Long term systemic effects: 75 mg/kg/day
Consumer - Inhalation; Short term local effects: 123 mg/m³
Consumer - Inhalation; Short term systemic effects: 426 mg/m³
Industry - Inhalation; Short term systemic effects: 246 mg/m³
Consumer - Inhalation; Long term systemic effects: 49 mg/m³

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PNEC

- Fresh water; 8.8 mg/l
- Sediment (Freshwater); 34.6 mg/kg
- Sediment (Marinewater); 3.46 mg/kg
- Marine water; 0.88 mg/l
- STP; 463 mg/l
- Soil; 2.8 mg/kg

8.2. Exposure controls

Protective equipment



Eye/face protection

Wear tightly sealed goggles

Hand protection

Impermeable material. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber.

Hygiene measures

Based on and limited to our experience of this product, the following special advice is believed to provide satisfactory protection for the industrial user or handler. The choice of suitable protective equipment depends on work conditions and what methods are used for handling the substance. This advice is not a substitute for each Company conducting their own Risk/COSHH Assessments, but is provided as general guidance. Do not smoke in the work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use barrier cream to prevent drying of skin. Eating, smoking and water fountains prohibited in immediate work area.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation. In confined or poorly ventilated areas suitable respiratory protection should be used if exposed to high levels of spray or mist.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue.
Odour	Alcohol
Flash point	~25°C
Relative density	~ 0.96
Solubility(ies)	Miscible with water.

9.2. Other information

Other information	No relevant information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific data available from our supplier currently.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions May react with strong oxidising agents and strong acids.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Alkalis and Peroxides Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 24,108.00385728

Acute toxicity - dermal

ATE dermal (mg/kg) 53,037.60848602

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 72.32401157

Route of entry Inhalation Ingestion. Skin and/or eye contact Refer to Section 4 of SDS for routes of exposure and corresponding symptoms.

Target organs Respiratory system, lungs

Medical symptoms Irritation of eyes and mucous membranes. Skin irritation.

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

Isopropyl Alcohol

Toxicological effects	Acute toxicity: Oral LD50 5840 mg/kg (rat) Dermal LD50 >5000 mg/kg (rat) Dermal LD50 >2000 mg/kg (rabbit) Inhalative LC50 (6u) >10000 ppm (rabbit) Inhalative LC50/4 h >20mg/l (rat)
Skin contact	No irritant effect.
Eye contact	Irritating effect.
Route of entry	Inhalation Ingestion. Skin and/or eye contact

2-Butoxyethanol

Acute toxicity - oral

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Acute toxicity oral (LD ₅₀ mg/kg)	1,300.0
Species	Rat
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0
Species	Guinea pig
<u>Acute toxicity - inhalation</u>	
ATE inhalation (dusts/mists mg/l)	1.5
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Skin contact	Irritant to skin and mucous membranes.
Eye contact	Strong irritant with the danger of severe eye injury.
Acute and chronic health hazards	Harmful Irritant
Route of entry	Skin and/or eye contact Ingestion. Inhalation

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Ecological information on ingredients.

Isopropyl Alcohol

Toxicity	EC50 (48u) >100 mg/l (daphnia magna)
	EC50 (72u) >100mg/l (Scenedesmus subspicatus)
	EC50 (96u) >1000mg/l (Scenedesmus subspicatus) (OECD 201)
	LC50 (48u) >100mg/l (Leuciscus idus)
	LC50 (96u) >9640mg/l (Pimephales promelas) (OECD 203)

2-Butoxyethanol

Toxicity	EC 50 (48 u) (static) 1550mg/l (daphnia magna) (water flea, immobilization)
	IC 50 >1000 mg/l (Bacteria)
	LC 50 (96 u) (static) 1474mg/l (Oncorhynchus mykiss) (rainbow trout)
	NOEC >100 mg/l (Zebra fish) (Danio rerio, semi-static test, 21 d)
	100 mg/l (daphnia magna) (semi-static test, 21 d, reproduction)

12.2. Persistence and degradability

Ecological information on ingredients.

Isopropyl Alcohol

Persistence and degradability	No further relevant information available.
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2-Butoxyethanol

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Persistence and degradability

The product is easily biodegradable. Degree of elimination: OECD 301B 90.4% (/) (28d)

12.3. Bioaccumulative potential

Ecological information on ingredients.

Isopropyl Alcohol

Bioaccumulative potential Not worth-mentioning accumulating in organisms BCF >70% (/)

2-Butoxyethanol

Bioaccumulative potential Not worth-mentioning accumulating in organisms : < 100 (/),

12.4. Mobility in soil

Ecological information on ingredients.

Isopropyl Alcohol

Mobility No further relevant information available.

2-Butoxyethanol

Adsorption/desorption coefficient Soil - Koc: 50-180 @ °C

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

Isopropyl Alcohol

Results of PBT and vPvB assessment Not applicable

2-Butoxyethanol

Results of PBT and vPvB assessment Not applicable

12.6. Other adverse effects

Ecological information on ingredients.

Isopropyl Alcohol

Other adverse effects Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

2-Butoxyethanol

Other adverse effects Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The packaging must be empty (drop-free when inverted).

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging: Recover and reclaim or recycle. If practical.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

14.2. UN proper shipping name

Proper shipping name (ADR/RID) FLAMMABLE LIQUID, N.O.S. CONTAINS ISOPROPYL ALCOHOL

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. CONTAINS ISOPROPYL ALCOHOL

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. CONTAINS ISOPROPYL ALCOHOL

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. CONTAINS ISOPROPYL ALCOHOL

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y

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Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations	Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.
EU legislation	Dangerous Preparations Directive 1999/45/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) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Safety Data Sheets for Substances and Preparations.
Health and environmental listings	Regulation (EC) 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals (as amended).
Water hazard classification	WGK 1

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	PLEASE NOTE: The risk phrases itemised below are those relating to concentrated forms of the raw materials used in this product and are not necessarily applicable to the finished item. Please see Section 2 for the current classification of this product.
Revision date	23/04/2015
Revision	5
Risk phrases in full	R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness.

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The information provided in this document is based on our present state of knowledge of the product and is given in good faith and to the best of our experience. However, it should not be construed as a technical specification or as guaranteeing specific properties, accuracy, reliability or completeness. In no event we will be responsible for damages or effects of any nature whatsoever, either express or implied, resulting from the use of this information. It is the own responsibility of the consignee and the user of the product to comply with all prevailing and applicable laws, regulations and directives. They should also make their own determination as to the suitability of the product for a particular use or application by carrying out a full risk assessment of their specific processes and systems of work. All information contained within this document is for the product in its undiluted state and 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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated.