



SAFETY DATA SHEET

Trigger De-Icer

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Trigger De-Icer Ref SGDI720

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

Identified uses De-Icing Fluid

1.3. Details of the supplier of the safety data sheet

Supplier: Silverhook Ltd
 Bates Road
 Harold Wood
 London RM3 0JH
 England
 +44(0)1708330500
 +44(0)1708330504

Contact: 333@silverhook.co.uk

1.4. Emergency telephone number

During office hours(8am – 4:30pm) +44(0)1708340333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008) Physical and Chemical Hazard Flammable Liquid 3 : H226.

Classification (1999/45/EEC) R10

2.2. Label elements

Label In Accordance With (Ec) No. 1272/2008

Signal Word Warning

Hazard Statements H226: Flammable liquid and vapour
 H302: Harmful if swallowed

Hazard Pictogram GHS02: Flame SHS07: Exclamation mark



Precautionary Statements

P102: Keep out of reach of children
P210: Keep away from heat/parks/open flames/hot surfaces. – No smoking
P301+310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Supplementary Precautionary Statements Not applicable

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2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Ethanol	30-40%
CAS-No.: 64-17-5	EC No.: 200-578-6
Registration Number: 01-2119457610-43-xxxx	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	Classification (67/548/EEC) F;R11.
Sodium N-(2-carboxyethyl)-N-(2-ethylhexyl)-β-alaninate	0.4-2.0%
CAS-No.: 94441-92-6	EC No.: 305-318-6
Classification (EC 1272/2008) Skin Irrit. 2, H315 Eye Dam. 1, H318	Classification (67/548/EEC) Xi;R38.
Mono Ethylene Glycol	8-10%
CAS-No.: 107-21-1	EC No.:203-473-3
Classification (EC 1272/2008) Acute Tox.4 – H302	Classification (67/548/EEC) Xn ;R22.

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

REACH Registration Notes

This material is a mixture. All components have been registered under REACH by the Manufacturer or Supplier.

Composition Comments

Preparation

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information

Remove affected person from source of contamination.

General first aid; rest, warmth and fresh air.

Inhalation

Remove victim immediately from source of exposure.

Place unconscious person on the side in the recovery position and ensure breathing

Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING!

When risk of unconsciousness, place and transport the victim in secured side position.

Get medical attention if any discomfort continues.

Never give liquid to an unconscious person.

Skin Contact

Remove affected person from source of contamination.

Remove contaminated clothing immediately and wash skin with soap and water.

Get medical attention if irritation persists after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing.

Promptly wash eyes with plenty of water while lifting the eye lids.

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Continue to rinse for at least 15 minutes.

Get medical attention if any discomfort continues.

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

General Information

Follow advice given in section 4.1

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

Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Vapours are heavier than air and may spread near ground to sources of ignition.

Gas / vapour flammable with air within explosion limits

Specific Hazards

Heating may generate vapours which may form explosive vapour/air mixtures.

5.3. Advice for fire-fighters

Special Fire Fighting Procedures

Avoid breathing fire vapours.

Use water to keep fire exposed containers cool and disperse vapours.

Keep run-off water out of sewers and water sources. Dike for water control.

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Protect drains by covering to avoid any spillage entering the drainage system.

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Contain spillage

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk.

Absorb in vermiculite, dry sand or earth and place into containers.

Flush with plenty of water to clean spillage area.

Do not contaminate water sources or sewer.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

Use explosion proof electric equipment.

Static electricity and formation of sparks must be prevented.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Keep in original container.

Keep out of direct sunlight

Storage Class

None.

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7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
Ethanol	WEL	1000 ppm	1920 mg/m ³	No std.

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand Protection

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene Measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly with soap & water if skin becomes contaminated.

DO NOT SMOKE IN WORK AREA!

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Blue / Clear
Odour	Odour of alcohol
Solubility	Soluble in: Water Acetone Ethanol.
Relative Density	0.95 @ 20 °c
Bulk Density	950 kg/m ³
Vapour Density (Air=1)	>1
Vapour Pressure	>20 20
pH-Value, Conc. Solution	7
Flash Point (°C)	29 degC CC (Closed cup).

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reaction with acids, aldehydes, Iso cyanates. Strong oxidising agents.

10.2. Chemical stability

Stable under normal temperature conditions.

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10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Oxidising agents Acids

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological Information

No data available

General Information

No specific health warnings noted.

Ingestion.

There may be some irritation to the throat.

Skin Contact

Slightly irritating.

Eye Contact

May cause temporary eye irritation and redness.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity:

There are no data on the eco-toxicity of this product.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/L 12900-15300 (Ethanol)

12.2. Persistence and degradability

There is no data on the persistence or degradability of this product.

12.3. Bio-accumulative potential

No data available on the bio-accumulative potential of this product.

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

This material must be disposed of via an Authorised Waste/Disposal Company in accordance with Local and or National Waste Disposal Regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN1987

14.2 UN Proper shipping name

Alcohols N.O.S. (Ethanol Mixture)

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14.3 Transport hazard class

Class 3

14.4. Packing group

III

14.5. Environmental hazards

Not classified under the sense of this regulation.

14.6. Special precautions for user

Not classified under the sense of this regulation Tunnel 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

Uk Regulatory References

Health and Safety at Work Act 1974.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

Control of Substances Hazardous to Health.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Substance Directive 67/548/EEC

Regulation (EC) No 1272/2008 CLP

Regulation (EC) No 1907/2006 REACH

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Information Sources

Fire and Related Properties of Industrial Chemicals, Fire Protection Association.

Revision Comments

Classification in line with CLP

Issued By	Technical Team
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Revision Date	24/06/2014
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Revision	2
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SDS No.	SGDI720
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Safety Data Sheet Status	Approved
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Date	24/06/14
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Risk Phrases In Full

R11	Highly flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R66	Repeated exposure may cause skin dryness or cracking.

Hazard Statements In Full

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Disclaimer

The information in this document has been compiled on the basis of the best available knowledge in accordance with the legislative requirements. It does not imply that the information is complete or accurate in all cases. It is the user's responsibility to satisfy themselves as to the application of the information and/or the recommendations given for their own use.