

SAFETY DATA SHEET

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

1.1 Product identifiers

Trade Name	Description	Unit	Code
Teepol	De-Icer / Screen Wash Additives	6 x 1L Trigger	0551
Teepol	De-Icer / Screen Wash Additives	4 x 5L	0661

1.2 Relevant identified uses of the substance/mixture and uses advised against

Clears ice and frost from windscreens, windows, mirrors and locks. Suitable for use on cars, coaches, commercial vehicles etc.

Use to unfreeze lock mechanisms. Powerful jet spray to reach truck windscreens. Will not damage body work, rubber, PVC or glass. Ozone friendly.

1.3 Details of the supplier of the safety data sheet

Company	Teepol Products,	Telephone	01689 877020
Address	Harvey Waddington, Murray Road, Orpington, Kent BR5 3QY	Fax	01689 877027
		E-Mail	sales@teepol.co.uk

1.4 Emergency telephone number +44 (0)1689 877020 (09:00 - 16:00 Monday to Friday)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flam. Liq. 2, H225

Eye. Irrit. 2, H319

2.2 Label elements

Signal Word: Hazard Pictograms:

DANGER

Hazard Statements:



H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary Statements:

Disposal

P501 Dispose of contents/container to licensed waste disposal site.

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337 + P313 If eye irritation persists: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Storage

P102 Keep out of reach of children.

2.3 Other hazards

EUH none None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No.</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Ethanol	603-002-00-5	64-17-5	200-578-6	>30

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>
Serious eye damage/irritation	Eye. Irrit. 2	H319
Flammable liquid	Flam. Liq. 2	H225

<u>Substance Name</u>	<u>REACH Reg. No.</u>	<u>CAS-No.</u>	<u>EC-No.</u>	<u>Amount [%]</u>
Sodium Lauryl Sarcosinate		137-16-6	205-281-5	<5

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Hazard Statements</u>
Skin corrosion/irritation	Skin. Irrit. 2	H315
Serious eye damage/irritation	Eye. Irrit. 2	H319
Acute toxicity	Acute. Tox. 4 - Oral	H302

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Remove contaminated clothing.

After inhalation

Ensure supply of fresh air

After contact with skin

Rinse off with water

After contact with eyes

Rinse eyes with water until irritation subsides.

After ingestion:

If small amount wash out mouth with water and drink clean water. If amount is large give plenty of water to drink, do not induce vomiting and seek medical advise.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation and reddening

4.3 Indication of any immediate medical attention and special treatment needed

Rinse with clean water

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide (CO2). Dry powder Dry chemicals, sand, dolomite etc.

5.1 Unsuitable extinguishing media: Water jet

5.2 Special hazards arising from the substance or mixture

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3 Advice fo Fire Fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASU

6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate PPE. Avoid breathing vapours if any and ensure adequate ventilation. Cordon off area to other personnel.

6.2 Environmental precautions

Do not allow to enter surface water drains, soil/subsoil.

6.3 Methods and material for containment and cleaning up

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

6.4 Reference to Other Sections: See Section 8 and 13 for more information on exposure and disposal.

SECTION 7: HANDLING and STORAGE

7.1 Precautions for safe handling

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original containers out of reach of children. Storage temperature should be between 5°C and 30°C.

7.3 Specific end use(s)

Use only as directed on the container or label.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control paramenters

(Ethanol) OES: 1000ppm, 1920 mg/m3, 8 hrs TWA; (Tertiary Butanol) OES: 100ppm, 308mg/M3, 8 hrs TWA: 150ppm, 462mg/M3 15min STEL.

8.2 Exposure Controls

Do not eat, drink or smoke whilst working and wash hands after use.

Exposure Controls - Eyes: Avoid contact with eyes.

Exposure Controls - Skin: Wear vinyl, latex or nitrile gloves.

Exposure Controls - Respiratory Avoid breathing vapours. Provide adequate ventilation.

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance / Odour Blue liquid with ethanol odour (Method: QP22)

pH (10% soln.) 7 - 7.5 (Method: QP03)

Melting/freezing point: 0°C

Flammable / Flash point 24°C

Relative density 0.9 g/cm³ @ 20°C (Method: QP07)

Solubility: Soluble/dispersible in water

Viscosity: As water @20°C (Method: QP04)

Oxidising properties: Not applicable.

Explosive properties: Not applicable.

9.2 Other Information No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Reaction with: Acids and oxidising agents.

10.2 Chemical Stability: Stable under normal temperature conditions and recommended use.

10.3 Hazardous Reactions: Reacts with strong oxidising agents.

10.6 Hazardous Decomposition Products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

10.4 Conditions to Avoid: Avoid heat, flames and other sources of ignition. Avoid exposing to heat and contact with strong oxidising substances. Avoid contact with acids.

10.5 Incompatible Materials: Strong oxidising substances. Strong acids. Alkali metals.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Substance	Toxicity
Ethanol	<p>Toxicological information on ingredients.</p> <p>ETHANOL (CAS: 64-17-5)</p> <p>Acute toxicity:</p> <p>Acute Toxicity (Oral LD50) > 2000 mg/kg Rat</p> <p>Acute Toxicity (Dermal LD50) > 2000 mg/kg Rabbit</p> <p>Acute Toxicity (Inhalation LC50) > 20 mg/l (vapours) Mouse</p> <p>Skin Corrosion/Irritation: Not irritating.</p> <p>Serious eye damage/irritation: Slightly Irritating.</p> <p>Respiratory or skin sensitisation: Skin sensitisation</p> <p>Guinea pig maximization test (GPMT): Guinea Pig Not Sensitising.</p> <p>Carcinogenicity: Not a carcinogen</p> <p>Aspiration hazard: General information</p> <p>Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.</p> <p>Inhalation</p> <p>Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Prolonged inhalation of high concentrations may damage respiratory system. Vapours may cause headache, fatigue, dizziness and nausea. Harmful: possible risk of irreversible effects through inhalation.</p> <p>Ingestion</p> <p>Swallowing concentrated chemical may cause severe internal injury. Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.</p> <p>Skin contact</p> <p>Prolonged contact may cause dryness of the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.</p> <p>Eye contact</p> <p>Extreme irritation of eyes and mucous membranes, including burning and tearing. Risk of corneal damage.</p> <p>Route of entry</p> <p>Inhalation. Ingestion. Skin and/or eye contact.</p> <p>Target Organs</p> <p>Central nervous system Eyes Gastro-intestinal tract Skin</p> <p>Medical Symptoms</p> <p>Extreme irritation of eyes and mucous membranes, including burning and tearing. Visual disturbances, incl. blurred vision. Nausea, vomiting. Headache.</p> <p>Medical Considerations</p> <p>History of alcoholism.</p> <p>Specific effects</p> <p>Ingestion over a long period of time may cause damage to the liver and nervous system.</p> <p>TERTIARY BUTANOL (CAS: 75-65-0)</p> <p>Acute toxicity:</p> <p>Acute Toxicity (Oral LD50) 3100 mg/kg Rat</p> <p>Acute Toxicity (Dermal LD50) > 2000 mg/kg Rat</p> <p>Acute Toxicity (Inhalation LC50) > 31 mg/l (vapours) Rat 4 hours</p> <p>Harmful by inhalation</p>

Skin Corrosion/Irritation:
Slightly irritating.

Serious eye damage/irritation:
Irritating

Respiratory or skin sensitisation:
Not Sensitising.

Carcinogenicity:
Not a carcinogen

Aspiration hazard:
General information
Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation
Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.
Prolonged inhalation of high concentrations may damage respiratory system. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion
Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. Irritating.
May be absorbed in the body and cause dizziness, nausea and vomiting. Swallowing concentrated chemical may cause severe internal injury.

Skin contact
Liquid may irritate skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

Eye contact
Extreme irritation of eyes and mucous membranes, including burning and tearing. May cause chemical eye burns. Risk of corneal damage.

Route of entry
Inhalation. Ingestion. Skin and/or eye contact.

Target Organs
Central nervous system Eyes Gastro-intestinal tract Skin

Medical Symptoms
Extreme irritation of eyes and mucous membranes, including burning and tearing. Visual disturbances, incl. Blurred vision. Nausea, vomiting. Headache.
Splash in eye requires examination by eye specialist.

Sodium Lauryl Sarcosinate

Toxicity values:
Route Species Test Value Units
ORAL RAT LD50 >2000 mg/kg

Relevant effects for mixture:
Effect Route Basis
Irritation OPT Hazardous: calculated

Symptoms / routes of exposure
Skin contact: There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.
Eye contact: There may be irritation and redness. There may be severe pain. The eyes may water profusely. Corneal burns may occur. May cause permanent damage.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

No information regarding interactions between the ingredients in this mixture is available, therefore, the information shown above is separately reported for each relevant ingredient used in the mixture even though it may be present below its concentration limit and represent no toxicity in the mixture as a whole.

SECTION 12: ECOLOGICAL INFORMATION

No specific information is available for this mixture, therefore, the following information regarding the relevant substances used in this mixture is provided, even though they may be present below the concentration limit and represent minimal or no toxicity to the environment.

Substance	ECO Toxicity
Ethanol	Ecological information on ingredients. ETHANOL (CAS: 64-17-5) Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude

the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

TERTIARY BUTANOL (CAS: 75-65-0)

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

ETHANOL (CAS: 64-17-5)

Acute Toxicity - Fish

LC50 48 hours > 100 mg/l *Leuciscus idus* (Golden orfe)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 100 mg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

EC50 48 hours > 100 mg/l *Selenastrum capricornutum*

TERTIARY BUTANOL (CAS: 75-65-0)

Acute Toxicity - Fish

LC50 96 hours > 856 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours > 933 mg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

EC50 72 hours > 1000 mg/l

12.2. Persistence and degradability

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Degradability

The product is biodegradable. Oxidises rapidly by photochemical reactions in air. Integrated environmental half-life expected to be 1-<10 days

Dominant loss process - biodegradation

TERTIARY BUTANOL (CAS: 75-65-0)

Degradability

Readily biodegradable meeting the 10 day window criterion. Oxidises rapidly by photochemical reactions in air. Integrated environmental

half-life expected to be 1-<10 days

Dominant loss process - biodegradation

12.3. Bioaccumulative potential

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Bioaccumulative potential

Does not bioaccumulate significantly

Partition coefficient - 0.31

TERTIARY BUTANOL (CAS: 75-65-0)

Bioaccumulative potential

Does not bioaccumulate significantly

Partition coefficient 0.317

12.4. Mobility in soil

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. The product is water soluble and may spread in water systems. This product will dissolve rapidly in water. Large volumes may penetrate soil and could contaminate groundwater

TERTIARY BUTANOL (CAS: 75-65-0)

Mobility:

The product is partly soluble in water. May spread in the aquatic environment. The product spreads over the surface of the water and will slowly evaporate. Large volumes may penetrate soil and could contaminate groundwater. If product enters soil it will be mobile and may contaminate groundwater.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)

This product does not contain any PBT or vPvB substances.

Ethanol	<p>TERTIARY BUTANOL (CAS: 75-65-0) This product does not contain any PBT or vPvB substances. 12.6. Other adverse effects Ecological information on ingredients. ETHANOL (CAS: 64-17-5) The product contains volatile, organic compounds which have a photochemical ozone creation potential. TERTIARY BUTANOL (CAS: 75-65-0) The product contains volatile, organic compounds which have a photochemical ozone creation potential.</p>
Sodium Lauryl Sarcosinate	<p>12.1. Toxicity Ecotoxicity values: Species Test Value Units FISH 96H LC50 56 mg/l 12.2. Persistence and degradability Persistence and degradability: The surfactants in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of the detergent manufacturer. 12.3. Bioaccumulative potential 12.4. Mobility in soil Mobility: Soluble in water. 12.5. Results of PBT and vPvB assessment PBT identification: This substance is not identified as a PBT substance. 12.6. Other adverse effects Other adverse effects: Toxic to aquatic organisms.</p>

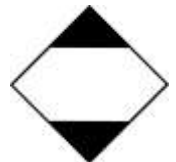
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

When disposing of surplus or waste product use suitable PPE etc. ensuring empty containers are rinsed out and disposed of safely. Do not allow product to enter land or surface water drains. Dispose of in accordance with local authority regulations. Do not mix with other waste materials.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number:** 1987
- 14.2 Shipping Name:** Teepol De-Icer / Screen Wash Additives
- 14.3 Transport hazard class:** ALCOHOLS, N.O.S.
- 14.4 Packing group:** III
- 14.5 Environmental Hazards:** ALCOHOLS, N.O.S.
- 14.6 Special precautions for user:**
No information
- 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:**
No information



SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environment regulation/legislation specific to the substance or mixture

EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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, including amendments.

Guidance

ECHA Guidance on the application of CLP criteria (Version 4: November 2013)

ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

15.2 Chemical safety assessment

No information

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H302 Harmful if swallowed.
- H225 Highly flammable liquid and vapour.

Directions:

Shake well before use. Brush or scrape excess snow and ice from surface, then spray DE-ICER liberally onto the windscreen starting at the top and working downwards.

N.B. Not to be used inside vehicles.

For use as a screen wash additive:

1 - 1 for freeze protection to -15°C

2 - 1 for freeze protection to -9°C

5 - 1 for freeze protection to -5°C

Further Information: The latest version of this data sheet may be obtained from the Harvey Waddington Web Site at: www.teepol.co.uk

GLOSSARY: PPE Personal protective equipment. N/A Not applicable. N/K Not known OES Occupational exposure limit
TWA Time weighted average W/V Weight to volume

The data contained in this Safety Data Sheet has been supplied for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

ANIMAL TESTING: Teepol Products (UK) do not test their finished products on animals.

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