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

1.1 Product identifiers

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>Description</th>
<th>Unit</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>6 x 1L Cartridge</td>
<td>0162</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>10 x 500ml</td>
<td>0163</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>500ml</td>
<td>0163s</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>4 x 5L</td>
<td>0164</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>5L</td>
<td>0164s</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>40 x 50ml</td>
<td>0166</td>
</tr>
<tr>
<td>Teepol</td>
<td>Alcohol Hand Sanitizer</td>
<td>50ml</td>
<td>0166S</td>
</tr>
</tbody>
</table>

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

Quick drying hand sanitizer for general use in hospitals and food preparation areas.

1.3 Details of the supplier of the safety data sheet

Company: Teepol Products,
Address: Harvey Waddington, Murray Road, Orpington, Kent BR5 3QY
Telephone: 01689 877020
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]
Acute. Tox. 4 - Oral, H302

2.2 Label elements

Signal Word: Flammable

Hazard Pictograms:

Hazard Statements:
H302 Harmful if swallowed.

Precautionary Statements:

Prevention
P211 Do not spray on an open flame or other ignition source.
P305 + P351 + P338 + P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
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

<table>
<thead>
<tr>
<th>Substance Name</th>
<th>REACH Reg. No.</th>
<th>CAS-No</th>
<th>EC-No.</th>
<th>Amount [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>603-002-00-5</td>
<td>64-17-5</td>
<td>200-578-6</td>
<td>&gt;30</td>
</tr>
</tbody>
</table>

Hazard Class
- Serious eye damage/irritation
- Flammable liquid

Hazard Category
- Eye. Irrit. 2
- Flam. Liq. 2

Hazard Statements
- H319 Serious eye damage/irritation
- H225 Flammable liquid

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 MEAS

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 precaution
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

Product Identifier: Teepol Alcohol Hand Sanitizer
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 parameters
(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: Clear liquid gel with ethanol odour. (Method: QP22)
P.H (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: Pourable gel @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:

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Toxicological information on ingredients. ETHANOL (CAS: 64-17-5)</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity:</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Oral LD50)</td>
</tr>
<tr>
<td></td>
<td>&gt; 2000 mg/kg Rat</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Dermal LD50)</td>
</tr>
<tr>
<td></td>
<td>&gt; 2000 mg/kg Rabbit</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Inhalation LC50)</td>
</tr>
<tr>
<td></td>
<td>&gt; 20 mg/l (vapours) Mouse</td>
</tr>
<tr>
<td></td>
<td>Skin Corrosion/Irritation:</td>
</tr>
<tr>
<td></td>
<td>Not irritating.</td>
</tr>
<tr>
<td></td>
<td>Serious eye damage/irritation:</td>
</tr>
</tbody>
</table>
Slightly Irritating.
Respiratory or skin sensitisation:
Skin sensitisation
Guinea pig maximization test (GPMT): Guinea Pig
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. Harmful: possible risk of irreversible effects through inhalation.
Ingestion
Swallowing concentrated chemical may cause severe internal injury. Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.
Skin contact
Prolonged contact may cause dryness of the 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. 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
Medical Considerations
History of alcoholism.
Specific effects
Ingestion over a long period of time may cause damage to the liver and nervous system.

TERTIARY BUTANOL (CAS: 75-65-0)
Acute toxicity:
Acute Toxicity (Oral LD50)
3100 mg/kg Rat
Acute Toxicity (Dermal LD50)
> 2000 mg/kg Rat
Acute Toxicity (Inhalation LC50)
> 31 mg/l (vapours) Rat 4 hours
Harmful by inhalation
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
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


Splash in eye requires examination by eye specialist.

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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>ECO Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (CAS: 64-17-5)</td>
<td>Ecological information on ingredients.</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td>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.</td>
</tr>
<tr>
<td>TERTIARY BUTANOL (CAS: 75-65-0)</td>
<td>Ecotoxicity</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

Acute Toxicity - Fish

<table>
<thead>
<tr>
<th>Substance</th>
<th>ECO Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (CAS: 64-17-5)</td>
<td>LC50 48 hours &gt; 100 mg/l Leuciscus idus (Golden orfe)</td>
</tr>
<tr>
<td></td>
<td>EC50 48 hours &gt; 100 mg/l Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>TERTIARY BUTANOL (CAS: 75-65-0)</td>
</tr>
<tr>
<td></td>
<td>EC50 48 hours &gt; 1000 mg/l Selenastrum capricornutum</td>
</tr>
</tbody>
</table>

Acute Toxicity - Aquatic Invertebrates

<table>
<thead>
<tr>
<th>Substance</th>
<th>ECO Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (CAS: 64-17-5)</td>
<td>EC50 48 hours &gt; 856 mg/l</td>
</tr>
<tr>
<td></td>
<td>EC50 48 hours &gt; 933 mg/l Daphnia magna</td>
</tr>
</tbody>
</table>

Acute Toxicity - Aquatic Plants

<table>
<thead>
<tr>
<th>Substance</th>
<th>ECO Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETHANOL (CAS: 64-17-5)</td>
<td>EC50 72 hours &gt; 1000 mg/l</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Ecological information on ingredients.

ETHANOL (CAS: 64-17-5)
Ethanol  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.  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.

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 Alcohol Hand Sanitizer

Product Identifier:  Teepol Alcohol Hand Sanitizer
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


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.
H225 Highly flammable liquid and vapour.

Passes EN 1276 for MRSA (MGS Certificate No. 8275). Contains 62.5% Ethanol. PCS No. 97238

Directions:
Massage a small amount into clean dry hands and allow to dry.
CERTIFIED AGAINST MRSA

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. OEL 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.

The information contained in this document is based on information believed to be correct on the date of issue. No warranty or representation, expressed or implied, is made as to the accuracy or completeness of this information. The user assumes all liability for any damage or injury resulting from abnormal use, from the failure to adhere to recommended practices, or from hazards inherent in the nature of the product. In accordance with our policy of incorporating technical improvements, we reserve the right to amend any specification without notice.

Product Identifier: Teepol Alcohol Hand Sanitizer