SAFETY DATA SHEET
Alcohol Towelette 75% Ethyl Alcohol (Ethanol)

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

Date issued 15.04.2020

1.1. Product identifier
Product name Alcohol Towelette with 75% Ethyl Alcohol (Ethanol)
Name of Chemical Used Ethyl alcohol
CAS no. 64-17-5

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/preparation Disinfectant. Antiseptic.

SECTION 2: Hazards identification

2.1. Classification of substance or mixture
Hazard Classification Class 3, Flammable Liquid
Classification according to Flamm. Liq. 2; H225;
Regulation (EC) No 1272/2008 [CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)
*Hazard pictograms (GHS US)

<table>
<thead>
<tr>
<th>Hazard statements</th>
<th>Flammable</th>
</tr>
</thead>
</table>

Precautionary statements
- Keep away from fire or flame
- IF ON SKIN (or hair): Remove immediately. Rinse skin with water/shower.
- In case of fire: Use for extinction.
- Store in a well-ventilated place. Keep cool.

2.3. Other hazards
Other hazards Not known.
SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>CAS no.: 64-17-5</td>
<td>Flam. Liq. 2</td>
<td>75%</td>
</tr>
<tr>
<td>Synonyms: Ethanol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

Ingestion: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Do not induce vomiting. Rinse mouth with water. Get medical attention if any discomfort continues.

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

Information for health personnel: Treat Symptomatically. Do not give victim anything to drink if he is unconscious.

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

Specific details on antidotes: No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards: HIGHLY FLAMMABLE! Solvent vapours may form explosive mixtures with air.


5.3. Advice for firefighters

Fire fighting procedures: No specific fire fighting procedure given.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures
Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breath vapour.

6.2. Environmental precautions

Environmental precautionary measures
Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method
Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

Other instructions
No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling
Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Mechanical ventilation may be required.

7.2. Protective Measures

Advice on general occupational hygiene
Provide easy access to water supply and eye wash facilities.

7.3. Conditions for safe storage, including any incompatibilities

Storage
Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place.

7.4. Specific end use(s)

Specific use(s)
Not entered.
SECTION 8: Exposure controls/personal protection

8.1. Exposure controls

Occupational exposure limits  Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapours. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

Safety signs

Respiratory protection

Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with gas filter, type A2.

Hand protection

Hand protection  Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection

Eye protection  Use safety goggles or face shield in case of splash risk.

Skin protection

Skin protection (except hands)  Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental

Specific hygiene measures Wash hands after contact.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Odour of alcohol</td>
</tr>
<tr>
<td>Comments, pH (as supplied)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/melting range</td>
<td>Value: -115 °C</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value: 78 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value: 12 °C</td>
</tr>
<tr>
<td>Explosion limit</td>
<td>Value: 3,5-15 %</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Value: 5,9 kPa</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Value: 1,6</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Value: 789 kg/m3</td>
</tr>
<tr>
<td>Solubility description</td>
<td>Completely soluble in water. Soluble in: Organic solvents.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Value: -0,32</td>
</tr>
<tr>
<td>Spontaneous combustability</td>
<td>Value: 425 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Value: 1,2 mPas</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Heating may cause a fire.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2)
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data
- Acute Toxicity (Oral LD50): mg/kg (oral rat) 7060
- Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) 124.7
- Acute Toxicity (Dermal LD50): mg/kg (ipr-rat) > 20 000

Potential acute effects

Inhalation
In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Skin contact
Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.

Eye contact
Causes serious eye irritation.

Ingestion
Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. May cause irritation to the mouth and throat.

Delayed effects / repeated exposure

Sensitization
Not known.

Chronic effects
None known.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity
None.

Mutagenicity
Not known.

Teratogenic properties
Not known.

Reproductive toxicity
Not known.
## SECTION 12: Ecological information

### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
<th>Method of testing</th>
<th>Species/Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute aquatic, fish</td>
<td>13500 mg/l</td>
<td>LC50</td>
<td>Pimephales promelas (96h)</td>
</tr>
<tr>
<td>Acute aquatic, algae</td>
<td>5000 mg/l</td>
<td>IC50</td>
<td>Scenedesmus subspicatus (7d)</td>
</tr>
<tr>
<td>Acute aquatic, Daphnia</td>
<td>5400 mg/l</td>
<td>EC50</td>
<td>Daphnia magna (72h)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Method of testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td>0.4-0.8</td>
<td>COD</td>
</tr>
<tr>
<td>Biological oxygen demand (BOD)</td>
<td>0.4-0.8</td>
<td>BOD</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

- Bioaccumulative potential: Will not bio-accumulate.
- Bioconcentration factor (BCF): Value: 0.66

### 12.4. Mobility in soil

- Mobility: The product is water soluble and may spread in water systems.
SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal

Product classified as hazardous waste: Yes
Packaging classified as hazardous waste: No

Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

SECTION 14: Transport information*

International Regulation

UNRTDG
* UN number: UN 3175
* Proper shipping name: Solids containing flammable liquid, n.o.s. (Ethanol)
Class: 4.1
Packing group: II

SECTION 15: Regulatory information*

Authored with regard to:
- “Classifications and Mark for commonly used dangerous chemicals” (GB13690-1992)
- “General rules for preparation of a Chemical Safety Data Sheet” (GB16483-2000)
- “The principle of classification of transport packaging groups of dangerous goods” (GB/T15098-94)
- “Classification and code of dangerous goods” (GB6944-2005)

SECTION 16: Other information

Date of re-issuance: 5.05.2020
Prepared by: Pharmapack Ltd, Unit I, 8/F, Yue Cheung Centre, Wong Chuk Yeung Street, Hong Kong
Date of Previous issue: 15.04.2020
* Indicates information that has changed from previously issued version.

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