## 1. Identification

<table>
<thead>
<tr>
<th><strong>GHS Product Identifier</strong></th>
<th>POLYVINYL ALCOHOL Diluted Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Company Name</strong></td>
<td>CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>38 - 50 Bedford Street GILLMAN SA 5013 Australia</td>
</tr>
<tr>
<td><strong>Telephone/Fax Number</strong></td>
<td>Tel: (08) 8440-2000 Fax: (08) 8440-2001</td>
</tr>
<tr>
<td><strong>Emergency phone number</strong></td>
<td>CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)</td>
</tr>
<tr>
<td><strong>Recommended use of the chemical and restrictions on use</strong></td>
<td>Classroom demonstrations of partial polymerisation and slime preparation, mould release agent.</td>
</tr>
<tr>
<td><strong>Name</strong></td>
<td>POLYVINYL ALCOHOL Diluted Solution TG</td>
</tr>
<tr>
<td><strong>Product Code</strong></td>
<td>PT076</td>
</tr>
</tbody>
</table>

### Other Information

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

### GHS classification of the substance/mixture
- **Signal Word (s)**: DANGER
- **Hazard Statement(s)**: H225 Highly flammable liquid and vapour.
- **Pictogram(s)**: Flame

### Precautionary statement – Prevention
- P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P303+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### Precautionary statement – Response
- P240 Ground/bond container and receiving equipment.
- P370+P378 In case of fire: Use foam, dry chemical, CO2 or water spray for extinction.

### Precautionary statement – Storage
- P403+P235 Store in a well-ventilated place. Keep cool.

### Precautionary statement – Disposal
- P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/information on ingredients
Safety Data Sheet

Product Name: POLYVINYL ALCOHOL Diluted Solution

Chemical Characterization

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Purified Water to make up to 100%</td>
<td></td>
<td>0-100 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethanol</td>
<td>64-17-5</td>
<td>30-50 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polyvinyl Alcohol</td>
<td>9002-89-5</td>
<td>5-15 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation: If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.

Ingestion: Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin: Wash with plenty of soap and water. If swelling, redness, blistering or irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use.

Eye contact: Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid Facilities: Maintain eyewash fountain and drench facilities in work area.

5. Fire-fighting measures

Specific Methods: Caution: Use of water spray when fighting fire may be inefficient. Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - DO NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

Specific hazards arising from the chemical: HIGHLY FLAMMABLE: These products have a low flash point. Will be easily ignited by heat, sparks or flames. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Many liquids are lighter than water. Containers may explode when heated. Fire will produce irritating, poisonous and/or corrosive gases. Vapours from run-off may create an explosion hazard.

Hazchem Code: •3Y

Precautions in connection with Fire: SCBA and structural firefighter's uniform may provide limited protection. Fully encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental release measures

Spills & Disposal: Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. All equipment in handling this product should be earthed. DO NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Vapour suppressing foam may be used to control vapours. Water spray may be used to knock down or divert vapours. Absorb spill with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal.

Personnel Precautions: SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Protection: Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Clean-up Methods - Small Spillages: Wear protective clothing specified for normal operations (see Section 8).

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

7. Handling and storage

Conditions for safe storage, including any incompatibilities: Store in cool place and out of direct sunlight. Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers securely sealed and protected against physical damage.
8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Occupational exposure limit values</th>
<th>Name</th>
<th>STEL</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ethanol</td>
<td>1880</td>
<td>1000</td>
</tr>
</tbody>
</table>

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

A time weighted average (TWA) has been established for Ethanol (Safe Work Australia) of 1880 mg/m³, (1000 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further information concerning ventilation requirements.

Respiratory Protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

Respiratory Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

Footwear

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colourless to yellowish, mobile liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic ethanol odour.</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Miscible.</td>
</tr>
<tr>
<td>Flammability</td>
<td>HIGHLY FLAMMABLE. Keep away from heat, sparks or naked flames. Use flameproof equipment and fittings to prevent flammability risk. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive vapour-air mixture. Vapours will travel considerable distances to sources of ignition.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Chemical Stability</th>
<th>Stable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Carbon monoxide and carbon dioxide.</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Product Name: POLYVINYL ALCOHOL Diluted Solution

Classified as hazardous

11. Toxicological Information

Ingestion: May be harmful if swallowed. May cause headache, dizziness, dullness, symptoms of central nervous system depression, vomiting, resulting in aspiration pneumonitis.

Inhalation: Inhalation of mists or aerosols can produce respiratory irritation. May cause irritation and burning pain to the nose and throat. May cause drowsiness or dizziness.

Skin: Contact with skin may result in irritation. Will have a degreasing action on the skin.

Eye: May cause eye irritation. Symptoms may be redness, tears and itching.

Chronic Effects: Repeated or prolonged skin contact may lead to dermatitic effects. May result in headache and central nervous system depression.

12. Ecological Information

Ecological Information: No information available.

Environmental Fate: No information available.

Environmental Protection: This product contains a low level (<0.5%) of alkylphenol ethoxylates (APEs) and should be prevented from entering aquatic systems.

13. Disposal considerations

Disposal Considerations: Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

U.N. Number: 1866

UN proper shipping name: RESIN SOLUTION

Transport hazard class(es): 3

Hazchem Code: 3Y

Packing Group: III

EPG Number: 3A1

IERG Number: 14

15. Regulatory information

Regulatory Information: All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule: Not Scheduled

Hazard Category: Highly Flammable

16. Other Information


Print Date: 1/07/2019
Safety Data Sheet

Infosafe No™ 1CHF7 Issue Date : July 2019 RE-ISSUED by CHEMSUPP

Product Name: POLYVINYL ALCOHOL Diluted Solution

Classified as hazardous

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Paul McCarthy Ph. (08) 8440 2000

DISCLAIMER STATEMENT:
All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Contact Person/Point

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.
The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.

© Copyright ACOHS Pty Ltd