Aitken Freeman Pty Ltd
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PO Box 548, Noble Park VIC 3174
Phone: (03) 9701 3955 Fax: (03) 9701 3956
Internet: www.aitkenfreeman.com
e-mail: sales@aitkenfreeman.com

Safety Data Sheet

1. Product Name: Tecseal PU – Single pack polyurethane coating
Classified as Hazardous

Identification

Company Name Aitken Freeman Pty Ltd
Address Unit 7, 7 – 9 Brough St. Springvale Vic 3171
Contact: Ph. (03) 9701 3955 Fx. (03) 9701 3956

2. Hazard Identification:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals
(GHS) including Work, Health and Safety regulations, Australia.
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and
Rail.
Additional GHS classification or other information may be included in this section but has not been adopted by Work
Health and Safety (WHS) Regulations.
GHS Classification
Flammable Liquids Hazard Category 3
Acute Toxicity (Inhalation) Hazard Category 4
Target Organ Systemic Toxicant (TOST) - Repeated Exposure Hazard Category 2
Target Organ Systemic Toxicant (TOST) - Single Exposure Hazard Category 3
Skin Corrosion / Irritation Hazard Category 2
Serious Eye Damage / Eye Irritation Hazard Category 2A
Skin Sensitizer Hazard Category 1A
Aquatic Environment Acute Hazard Category 3
Aquatic Environment Chronic Hazard Category 3

LABEL ELEMENTS

Name of Pictogram(s)
Flame
Health hazard
Exclamation mark

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Signal Word Warning

Precautionary Statements

Prevention Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Do notbreathe vapors or spray mist.

Response IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISONCENTRE or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Specific treatment - refer to first aid instructions on safety data sheet. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Get medical attention/advice if you feel unwell

Disposal Dispose of contents/container in accordance with local and national regulations.

3. Composition / information on ingredients

Ingredients

Name	CAS	Proportion %
Xylene	1330-20-7	40 - 50
Ethyl benzene	100-41-4	10 – 15
Methylene bis(4-cyclohexyl isocyanate)	5124 – 30 -1	<1
Non hazardous ingredients		to 100%

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4. First Aid Measures

Poisons Information Centre, Australia: 13 11 26
Symptoms and Signs of Poisoning:
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Burning sensation.
Eye Contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin Contact:
Wash immediately with plenty of water and soap. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Get medical attention if irritation develops and persists. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion:
May produce an allergic reaction. If an allergic reaction occurs, stop use and seek medical help right away. **Do NOT** induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Call a doctor.
Inhalation:
MAY CAUSE ALLERGIC RESPIRATORY REACTION. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
Notes To Physician:
May cause sensitisation in susceptible persons. Treat symptomatically

5. Fire fighting measures

Suitable Extinguishing Media:
Carbon dioxide. dry chemical. Alcohol resistant foam. Water spray.
Unsuitable Extinguishing Media:
full water jet.
Protective Equipment:
Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.
Special Hazards:
May be ignited by heat, sparks or flames. In case of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gasesand vapours. Flammable. Risk of ignition. Keep product and empty container away from heat and

sources of ignition.
In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitization by skin contact.
HAZCHEM Code: •3Y

6. Accidental Release Measures

Personal precautions:
Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take action to prevent static discharge. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Ventilate the area.
Methods For Containment:
Stop leak if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways.
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods For Cleaning Up:
Take action to prevent static discharge. Dam up. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal.
Environmental Precautions:
Avoid release to the environment.
References to other sections:
See Sections 7, 8 and 13 for additional information

7. Handling and storage

Handling
Precautions: Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and other equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective
gloves and eye/face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Do not breathe vapors or spray mist.
Special Handling Statements: Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharge. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and
explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label

instructions.
Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing.
Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes without delay. Take off contaminated clothing and wash it before reuse. Containers must be bonded and grounded when pouring or transferring material.

Storage

Keep container tightly closed and dry in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of reach of children. Store separately.
Storage Temperature: Ambient temperature
Reason: Safety.
Australian AS 1940 Storage Classification: Flammable liquid

8. Exposure Controls

CONTROL PARAMETERS - Limits

Xylene 1330-20-7

Australia:	80 ppm (TWA)
	350 mg/m3 (TWA)
	150 ppm (STEL)
	655 mg/m3 (STEL)
New Zealand:	50 ppm (TWA)
	217 mg/m3 (TWA)
ACGIH (TLV):	150 ppm (STEL)
	100 ppm (TWA)

Ethylbenzene 100-41-4

Australia:	100 ppm (TWA)
	434 mg/m3 (TWA)
	125 ppm (STEL)
	543 mg/m3 (STEL)
New Zealand:	100 ppm (TWA)
	434 mg/m3 (TWA)
	125 ppm (STEL)
	543 mg/m3 (STEL)
ACGIH (TLV):	20 ppm (TWA)

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Biological Exposure Limit(s)

Xylene 1330-20-7

Biological Exposure Indices (ACGIH)	1.5 g/g creatinine (urine - end of shift)

Ethylbenzene 100-41-4

Biological Exposure Indices (ACGIH)	0.15 g/g creatinine (urine - end of shift)

Engineering Measures:
Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.
Respiratory Protection:
For operations where inhalation exposure can occur use an approved respirator. Recommendations are listed below.
Other protective respiratory equipment may be used based on user's own risk assessment.

Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS
1716.
Recommended:
Full Face Mask with organic vapor cartridge, Type A filter (BP >65°C)
Eye protection:
Tight sealing safety goggles. Face protection shield.
Skin Protection:
Antistatic footwear. Wear fire/flame resistant/retardant clothing. Gloves made of plastic or rubber. Wear suitable protective clothing. Apron.
Hand protection:
Wear protective gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.
Gloves for repeated or prolonged exposure - non exhaustive list:
Viton®/Butyl rubber, thickness: 0.7 mm, break through time: > 480 min
Gloves for short term exposure/splash protection - non exhaustive list:
Nitrile rubber (NBR), thickness: > 0.56 mm, break through time: < 60 min
The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.
Not suitable gloves - non exhaustive list:
Natural rubber (NRL), thickness: 0.12 mm
Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. Use PE gloves as under gloves for difficult situations like for instance: high exposure, unknown composition or unknown properties of the chemicals.

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Additional Advice:
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

9. Physical and Chemical Properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	clear amber
Appearance:	clear liquid
Odor: aromatic	PETROLEUM DISTILLATES
Odor Threshold:	See Section 8 for exposure limits.
pH:	Not available
Melting Point:	Not available
Boiling Point:	137 - 143 °C (based on components)
Flash point:	29 °C Pensky-Martens Closed Cup
Evaporation Rate:	0.70
Flammable Limits	(% By Vol): Lower: 1.1 Upper: 7.7
Vapor Pressure:	52 hPa, 40°C Derived from solvent
Vapour density:	3.7 Derived from solvent
Specific Gravity/Density:	0.980 g/cm³
Solubility In Water:	Insoluble
Partition coefficient (n-octanol/water):	Not available
Autoignition temperature:	Not available
Decomposition Temperature	Not available
Viscosity (Kinematic):	56 mm²/s
Viscosity (Dynamic):	55 mPa.s
Explosive Properties:	Not available
Oxidizing Properties:	Not available

OTHER INFORMATION

Fat Solubility (Solvent-Oil):	Not available
Percent Volatile (% by wt.):	Not available
Solids Content:	Not available
Saturation In Air (% By Vol.):	Not available
Acid Number (mg KOH/g):	Not available
Hydroxyl Value (mg KOH/g):	Not available
Volatile Organic Content (1999/13/EC):	~ 59 %

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10 Stability and Reactivity

Reactivity:	No information available
Stability:	Stable.
Conditions	To Avoid: Heat, flames and sparks.
Polymerization:	Will not occur
Conditions To Avoid:	None known
Materials To Avoid:	Strong acids Strong bases Strong oxidizing agents.

Hazardous Decomposition Products: None known

11 Toxicological Information

Likely Routes of Exposure: Skin, Eyes, Oral, Respiratory System.
HEALTH HAZARD INFORMATION
Acute toxicity - oral: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Acute toxicity - inhalation: Harmful if inhaled
Skin corrosion / irritation: Causes skin irritation
Serious eye damage / eye irritation: Causes serious eye irritation
Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Skin sensitization: May cause an allergic skin reaction
Carcinogenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Germ cell mutagenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Reproductive toxicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.
Route of Exposure: inhalation Affected Organs: Central nervous system, Liver, Kidneys, Ears
Aspiration hazard: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

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PRODUCT TOXICITY INFORMATION
ACUTE TOXICITY DATA

oral	**rat**	**Acute LD50**	**> 2000 mg/kg**
dermal	**rabbit**	**Acute LD50**	**> 2000 mg/kg**
inhalation	**rat**	**Acute LC50 4 hr**	**> 5 mg/l (Dust/Mist)**
			20.00 mg/l (Vapors)

Specific target organ toxicity (single exposure): May cause respiratory irritation.

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	**Skin**	**Irritating**
Acute Irritation	**eye**	**Irritating**

ALLERGIC SENSITIZATION

Sensitization	**Skin**	**Sensitizing**
Sensitization	**respiratory**	**No data**

Specific target organ toxicity (repeated exposure): May cause damage to central nervous system, liver, kidneys and ears through prolonged or repeated exposure by inhalation.

GENOTOXICITY

Assays for Gene Mutations
Ames Salmonella Assay **No data**

OTHER INFORMATION
The product toxicity information above has been estimated.

12 Ecological Information

Overall Environmental Toxicity: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
The ecological assessment for this material is based on an evaluation of its components.

ECOTOXICITY: Not available

BIOACCUMULATIVE POTENTIAL: Not available

PERSISTENCE AND DEGRADABILITY Not available

MOBILITY IN SOIL Not available

OTHER ADVERSE EFFECTS
HAZARD TO THE OZONE LAYER **Not available**

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13 Disposal Considerations

Waste Treatment Methods
The company encourages the recycle and reuse of products and packaging, where possible and permitted.
Product disposal
When recycle or reuse is not possible, the company recommends that our products, especially when classified ashazardous, be disposed of at approved facilities. All local and national regulations should be followed.

Packaging disposal
Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packagingmust be made in accordance with applicable local and national regulations.

Disposal-relevant information
Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

14 Transport Information

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

Australia (ADG)

Dangerous Goods?	**X**
PROPER SHIPPING NAME:	**RESIN SOLUTION**
Hazard Class:	**3**
UN Number:	**UN1866**
Packing Group:	**III**
Transport Label Required:	**Flammable liquid**
HAZCHEM Code:	**●3Y**

IMO

Dangerous Goods?	**X**
UN PROPER SHIPPING NAME:	**RESIN SOLUTION**
Transport Hazard Class:	**3**
UN Number:	**UN1866**
Packing Group:	**III**
Transport Label Required:	**Flammable liquid**

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ICAO / IATA
Dangerous Goods? X
UN PROPER SHIPPING NAME: RESIN SOLUTION
Transport Hazard Class: 3
Packing Group: III
UN Number: UN1866
Transport Label Required: Flammable liquid

15 Regulatory Information

Safety, health and environmental regulations specific for the product in question
Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable
Persistent Organic Pollutants (Regulation (EC) No 850/2004): Not applicable
Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)
Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)
Poison Schedule Number: S5

Inventory Information
Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.
New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.
United States (USA): All components of this product are designated as "Active" on the TSCA Inventory or are not required to be listed.
Canada: One or more components of this product are NOT included on the Canadian Domestic Substances List
(DSL). These components are included on the Canadian Non-Domestic Substances List (NDSL).
China: One or more components of this product are NOT included on the Chinese (IECSC) inventory.
Japan: One or more components of this product are NOT included on the Japanese (ENCS and/or ISHL) inventories.
Korea: One or more components of this product are NOT included on the Korean (ECL) inventory.
Philippines: One or more components of this product are NOT included on the Philippine (PICCS) inventory.
Taiwan: One or more components of this product are NOT included in the Taiwan chemical substance inventory (TCSI).

16 Other Information

Classification of the preparation and its individual components has drawn on official and authoritative sources usingavailable literature references.
Revision date 22nd October 2024