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MATERIAL SAFETY DATA SHEET – PAGE 1 OF 4

TECSEAL PU

This product is classified as hazardous according to criteria of NOHSC

Section 1 – Identification of the Material and Supplier

PRODUCT (MATERIAL) NAME: TECSEAL PU
OTHER NAMES:
RECOMMENDED USES: Polyurethane for use as a coating for concrete floors
SUPPLIER NAME/ADDRESS: Aitken Freeman Pty Ltd – Factory 7, 7-9 Brough St, Springvale VIC 3171
TELEPHONE NUMBER: (03) 9701 3955 **FACSIMILE NUMBER:** (03) 9701 3956
EMERGENCY PHONE NUMBER: (03) 9701 3955 **HOURS:** 0800-1700 Mon-Fri

Section 2 – Hazards Identification

POISONS SCHEDULE: S6
HAZARD CLASSIFICATION: Classified as a **HAZARDOUS SUBSTANCE** according to criteria of NOHSC. Classified as **DANGEROUS GOODS** according to criteria of ADG Code.
RISK PHRASES:
R10: Flammable
R20/R21: Harmful by inhalation and in contact with skin
R22: Harmful if swallowed
R41: Risk of serious damage to the eyes
R65: Harmful: may cause lung damage if swallowed
R66: Repeated exposure may cause skin drying or cracking
S7/S9: Keep container tightly closed in a well ventilated place
S16/S21: Keep away from sources of ignition, when using do not smoke
S24/S25: Avoid contact with the skin and eyes
S36: Wear suitable protective clothing
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).
S26: In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or the Poisons Information Centre.
S46: If swallowed, immediately contact a doctor or Poisons Information Centre and show this container, label or MSDS

Section 3 – Composition / Information on Ingredients

INGREDIENTS:

Chemical Name:	Proportion:	CAS Number:
Xylene	30 - 60 %	1330-20-7
Propylene glycol monomethyl ether acetate	10 - 20 %	108-65-6
Methylene bis- cyclohexyl isocyanate	0 - 1%	5124-30-1

Balance of formulation consists of ingredients below cut-off rates or ingredients determined not to be hazardous.

Section 4 – First Aid Measures

INHALATION: If inhaled, remove patient from contaminated area to fresh air. Lay patient down, keep warm and rested. Encourage patient to blow nose and clear breathing passages. If not breathing, apply artificial respiration. Seek medical attention if irritation persists.

INGESTION: If swallowed, DO NOT induce vomiting. Rinse mouth with plenty of water. Seek immediate medical advice from a doctor or the Poisons Information Centre (13 11 26 Australia-wide).

SKIN: If skin or hair contact occurs, remove all contaminated clothing and wash before reuse. Wash off skin and/or hair with running water and soap if available. Seek medical assistance if irritation persists.

EYES: If product comes into contact with eyes, hold eyelids apart and flush the eye continuously with fresh running water. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

FIRST AID FACILITIES: Eye wash and normal washroom facilities.
ADVICE TO DOCTOR: Treat symptomatically. **POISON INFORMATION CENTRE** – 13 11 26 Australia-wide.

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Section 5 – Fire Fighting Measures

EXTINGUISHING MEDIA: Dry chemical powder, foam or carbon dioxide. Foam is the preferred medium for large fires.

FIRE FIGHTING: Alert Fire Brigade immediately. Wear breathing apparatus and gloves. Avoid bodily contact with substance or run-off. If safe, switch off electrical equipment until vapour fire hazard is removed. Use water delivered as a fine spray to control fire and cool adjacent areas. Do NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

FIRE / EXPLOSION HAZARD: Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mix with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide.

HAZCHEM CODE: 3A1

Section 6 – Accidental Release Measures

EMERGENCY PROCEDURES: Evacuate all unnecessary and unprotected personnel. Remove all ignition sources and clean up all spills immediately. Avoid breathing vapours and contact with skin or eyes. Control personal contact using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up and collect residues in a flammable waste container. Prevent by any means available spillage from entering drains or water courses. Proper Emergency Response Planning should be undertaken for protective actions in case of spillage.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP: Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste sites.

Section 7 – Handling and Storage

PRECAUTIONS FOR SAFE HANDLING: Minimise handling of this product as good work practice. DO NOT allow clothing wet with material to stay in contact with skin. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Avoid splash filling. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid generation of static electricity. DO NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. When handling, DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Work clothes should be laundered separately.

CONDITIONS FOR SAFE STORAGE: Keep containers securely sealed when not in use. Avoid physical damage to containers. Containers, even when empty, may contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers. Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Store away from incompatible materials in a cool, dry, well-ventilated area. Protect containers against physical damage and check regularly for leaks.

INCOMPATIBILITIES: Avoid reaction with oxidising agents.

Section 8 – Exposure Controls / Personal Protection

NATIONAL EXPOSURE STANDARDS: No exposure limits have been established for this product by ASCC. Other material ingredients have no listed OELS under the national standards.

BIOLOGICAL LIMIT VALUES: Not established for the product.

ENGINEERING CONTROLS: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

PERSONAL PROTECTION: Avoid unnecessary contact as good work practice. Wash contaminated clothing and protective equipment before storing and reuse. Wash hands before eating, smoking, or using the toilet.

RESPIRATORY PROTECTION: The use of a respirator or other device is recommended where vapour concentration is present. For assistance in selecting suitable equipment consult AS/NZ1715.

EYE PROTECTION: Eye protective measures are normally necessary and are suggested when using this product. Consult AS1336 and AS/NZ1337.

PROTECTIVE GLOVES: Rubber, PVC or other protective gloves are necessary, and desirable, especially if this product is being used frequently or for lengthy periods. Consult AS2161 for guidance.

CLOTHING: Clean overalls should be worn, preferably with an apron. Consult AS2919 for clothing guidance.

SAFETY FOOTWEAR: Wearing safety boots is advisory. Consult AS/NZ2210 for advice on Occupational Protective Footwear.

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Section 9 – Physical and Chemical Properties

APPEARANCE (COLOUR, PHYSICAL FORM, SHAPE):

ODOUR:	Clear liquid		
PHYSICAL PROPERTIES:	Aromatic solvent		
MOLECULAR WEIGHT:	Liquid, does not mix with water. Floats on water.		
MELTING RANGE:	Not applicable	BOILING RANGE:	137 - 143°C
SOLUBILITY IN WATER:	Not available	SPECIFIC GRAVITY:	0.98
pH (1% solution):	Not available	pH (as supplied):	Not available
Volatile Component (%vol):	Not available	Vapour pressure (kPa):	5.2 kPa @ 38°C
Relative Vapour Density:	3.7 @ 15°C	Evaporation Rate:	0.7 (butylacetate = 1)
Lower Flammability Limit (%):	1.1	Flash Point:	29°C (TCC)
Autoignition Temp (°C):	Not available	Upper Flammability Limit (%):	7.7
State:	Liquid	Decomposition Temp (°C):	Not available
		Viscosity:	Not available

Section 10 – Stability and Reactivity

CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	Keep away from incompatible materials. Store in a cool, dry place below 30°C. Keep away from sparks or ignition. Any electrical equipment in area should be flame proofed.
INCOMPATIBLE MATERIALS:	Halogens, molten sulphur, strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide, and if burning carbon monoxide. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement, and unconsciousness followed by coma and death.
HAZARDOUS REACTIONS:	Hazardous polymerisation will not occur.

Section 11 – Toxicological Information

TOXICOLOGY INFORMATION:

No toxicity data is available for this product or its constituent ingredients. The material may produce severe irritation to the eyes causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

HEALTH EFFECTS FROM THE LIKELY ROUTES OF EXPOSURE:

INHALATION:

Inhalation of this material during the course of normal handling, may be harmful. Inhalation hazard is increased at higher temperatures. Inhalation of vapours may cause drowsiness and dizziness.

INGESTION:

Ingestion of the material may be damaging to the health of the individual. Swallowing of the liquid can cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. Ingestion of this product can cause gastrointestinal pain, vomiting and diarrhoea. Lesions of the mucous membranes in the oesophagus and the gastrointestinal tract can follow oral exposure.

SKIN: Skin contact with the material may be harmful; prolonged dermal exposure, for example as a result of wearing clothes soaked or moistened with this product, can cause irritation or dermatitis.

EYES: May cause irritation to eyes. Symptoms may include redness, tearing, stinging and swelling.

Section 12 – Ecological Information

ECOTOXICITY: Not available
PERSISTENCE AND DEGRADABILITY: Not available

MOBILITY: Once dry the resultant film is not mobile.

Section 13 – Disposal Considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

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Section 14 – Transport Information

UN NUMBER: 1866
UN PROPER SHIPPING NAME: Resin Solution
DANGEROUS GOODS CLASS: Class 3, Flammable Liquids
SUBSIDIARY RISK: None
PACKING GROUP: III
HAZCHEM CODE: 3A1
LABELS REQUIRED: FLAMMABLE LIQUID

Section 15 – Regulatory Information

POISON SCHEDULE: S6
OHS: Unregulated
ENVIRONMENTAL: Unregulated
ADDITIONAL NATIONAL AND/OR INTERNATIONAL REGULATORY INFORMATION:
Unregulated

Section 16 – Other Information

DATE OF PREPARATION OR LAST REVISION OF MSDS:

1st September 2016

CONTACT POINT:

Aitken Freeman Pty Ltd
(03) 9701 3955

LITERATURE REFERENCES / SOURCES OF DATA:

Material Safety Data Sheets from Suppliers
List of Designated Substances – Worksafe Australia (on-line)
Australian Dangerous Goods Code 6th Edition
Standard for the Uniform Scheduling of Drugs and Poisons No 19

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