

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF CHEMICAL

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Product Name: PU513 Z Membrane

Description: One-component moisture curing modified polyurethane based compound.

Use: Rollable grade waterproofing membrane and protective coating for construction.

SECTION 2 – HAZARDS IDENTIFICATION

This product is classified as: **Non Hazardous according to criteria of Worksafe Australia**

U.N. Number: None	Dangerous Goods Class: None	Hazchem Code: N/A
Risk: Irritant to skin	Poisons Schedule: N/A	
Risk Phases: R22	Harmful if swallowed	
R43	May cause sensitization by skin contact	
Safety Phases: S1/2	Keep locked and out of reach of children	
S23	Do not breathe vapour or spray	
S26	In case of contact with eyes rinse immediately with plenty of water and contact a doctor or Poisons Information Centre (Australia 13 11 26)	
S36/37	Wear suitable protective clothing and gloves	
S45	In case of accident or you feel unwell, seek medical advice immediately (show the label whenever possible)	

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical Ingredient:	C.A.S. No:	Concentration
Polyurethane prepolymer	-	20-40%
Non-hazardous ingredients		to 100%

SECTION 4 – FIRST AID MEASURES

Inhaled: If effects occur, remove to fresh air. Seek medical attention.

Skin Contact: May cause irritation to skin. Symptoms include redness, itching and pain. May cause dermatitis. Wash contact area with soap and water. A cotton pad soaked with castor oil can be used to remove product from skin.

Eye Contact: May cause severe irritation and discomfort. Immediately flush eyes with water for at least 15 minutes (longer if irritation persists), hold eyelids open. Seek medical assistance immediately.

Swallowed: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhoea. A potential aspiration hazard if swallowed. May cause damage to lungs. System may parallel inhalation exposure. **Do not induce vomiting.** If vomiting does occur, keep head below hip to prevent aspiration. Seek immediate medical assistance.

Notes to Physician: Contact Poisons Information Centre in Australia Phone 13 11 26.

SECTION 5 – FIRE FIGHTING MEASURES

Flammability: Non flammable liquid. Combustible as dried film.

Flash Point: Not determined.

Flammability Limits: Not determined.

Hazchem Code: Not applicable

Specific Hazards: Toxic fumes including carbon monoxide may be evolved.

Extinguishing Media: Extinguish with foam, water spray or fog. Do not use water in a jet. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures:

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure drain valves are closed at all times. Clean-up and report spills immediately.

Methods and Materials for Containment and Clean-up:

Contain spill using sand, earth, vermiculite or other suitable absorbent. Place contaminated absorbent in drums for disposal. Personnel involved in clean-up must use recommended protective equipment. Dispose of in accordance with Local Regulations.

SECTION 7 – HANDLING & STORAGE

Handling: This material is combustible. Eliminate all ignition sources. Ensure ventilation is sufficient to prevent a build-up of vapour.

Storage: Store in a cool, dry place. Product will absorb moisture from the atmosphere. Keep containers closed at all times. Avoid storage of partially used pails. Contamination of drummed product with water may lead to drum rupture.

Container Advice: Containers, even those that have been emptied, can contain flammable or explosive vapours. Do not cut, drill, weld or perform similar operations on or near containers.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:

	<u>TWA</u>	<u>STEL</u>
Isocyanate (as NCO)	0.02mg/m ³ sensitiser	0.07mg/m ³

TWA – (Time Weighted Average) – Maximum average airborne concentration experienced over an eight hour working day, for a five day working week over an entire working life.

STEL – (Short Term Exposure Limit) – Average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour working day.

Exposure Limits: Not established for product or individual components.

Ventilation: Provide general and/or local exhaust ventilation, depending on type of operations, to control airborne exposures.

Biological Limit Values: No biological limit allocated

Engineering Controls: Use only in a well ventilated area. Ventilation must be sufficient to maintain exposure below recommended exposure standards above.

Personal Protective Equipment (PPE):

Respiratory: If inhalation risk exists, wear a respirator fitted with cartridge suitable for organic vapours. This must comply with AS/NZS 1715:1994 STANDARD. Wash hands before smoking, eating, drinking and going to the toilet.

Skin/Body: Wear impervious protective clothing, including boots, gloves, coveralls, and safety goggles. Ensure protective equipment is decontaminated before re-use.

Eyes/Face: Chemically resistant safety glasses with side shields. If there is a risk of splashing wear a full face shield. Ensure eye wash facilities are available and all workers are aware of location.

Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:

AS 1336:	Recommended practices for eye protection in the industrial environment
AS/NZS 1337:	Eye protectors for industrial application
AS/NZS 1715:	Selection, use and maintenance of respiratory protective devices
AS 2161:	Industrial safety gloves and mittens (excluding electrical and medical gloves)
AS/NZS 2210:	Occupational protective footwear
AS 2919:	Industrial clothing

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Viscous liquid	Odour:	Undetermined
PH:	Not applicable	Specific Gravity:	1.4
Vapour Pressure:	1.0kPa @ 20°C	Vapour Density:	3.5 (Air = 1)
Boiling Point:	>160°C	Freezing Point:	> - 48°C
Solubility (water):	Immiscible	Flash Point, cc:	>160°C
Viscosity:	55 - 75 Pa.s	VOC:	0.0g/litre

SECTION 10 – STABILITY & REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to Avoid: Stable under normal conditions of use.

Incompatible Materials: Strong alkali, acids, oxidising agents, amines and water.

Hazardous Decomposition Products: A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11 – TOXICOLOGICAL INFORMATION

Specific product data is unavailable - information is based on polyurethane prepolymer.

Acute Oral Toxicity: Low toxicity – LD50 > 2000mg/kg, Rat aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

Acute Dermal Toxicity: Low toxicity – LD50 > 2000 mg/kg. Classified harmful under EC criteria, Rabbit.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12 – ECOLOGICAL INFORMATION

Specific data for this product is not available.

Persistence/degradability: This product can degrade rapidly in air. This substance is expected to be removed in wastewater treatment. Based on data for similar components or estimated data, this product is expected to biodegrade rapidly and be 'readily' biodegradable according to OECD guidelines.

Mobility: No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Material Disposal: Part containers can be gelled by mixing in 1-2% water. If setting the material with water, provide for the foaming by placing in a bunged/sealed area to prevent the foam from escaping to surrounding environment. Care should be taken to ensure compliance with national and local authorities.

Container Disposal: Drain container thoroughly of uncured material or mix a little water into uncured material, as described above. Ensure empty packaging is allowed to dry.

SECTION 14 – TRANSPORT INFORMATION

This product is not classified as a dangerous good in Australia Dangerous Goods Code by reference to a specific substance name or a generic name or group.

U.N. Number: None

Dangerous Goods Class: None

SECTION 15 – REGULATORY INFORMATION

Country/Region	Australia	Inventory	AISC
Status	Listed	Poisons Schedule	n/c

SECTION 16 – OTHER INFORMATION

ACRONYMS

AICS:	Australian Inventory of Chemical Substances
CAS Number:	Chemical Abstracts Service Registry Number
Hazchem Code:	Emergency action code that provides information to emergency services
IARC:	International Agency for Research on Cancer
NOHSC:	National Occupational Health and Safety Council

CONTACT: **Sealex Industries 1300 555 955**

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IMPORTANT NOTE:

Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate information available at the time of writing. All information contained herein is given in good faith, but is subject to change without notice.

