

POLYURETHANE FIRE RATE CONSTRUCTION GRADE SEALANT

SAFETY DATA SHEET

Hazardous substances, non-dangerous goods

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT NAME: POLYURETHANE FIRE RATE CONSTRUCTION GRADE SEALANT

Product Name:	Tradeseal Polyurethane Fire Rate Construction Grade Sealant
Pure Substance/Mixture:	Mixture
Recommended Use:	Sealant for the building industry
Uses Advised Against:	No information available

Tradeseal Group	Emergency: Poisons Information Centre
PO Box 586, Coorparoo Qld 4151	Australia: 131 126
info@tradesealgroup.com.au	New Zealand: 008 764 766

2. HAZARDS IDENTIFICATION

This material is hazardous according to the health criteria of Safe Work Australia GHS 7.

H315 + H317	Causes skin irritation. May cause an allergic skin reaction. GHS07
H 318 + H319	Causes serious eye damage. Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H371	May cause damage to organs
H373	May causes damage to organs through prolonged or repeated exposure

GHS Signal World: Danger | Warning

Hazard Signal:



PREVENTION:

P102	Keep out of reach of children
P103	Read label before use and follow all instructions
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P261	Avoid breathing dust, fume, gas, mist, vapours, spray
P264	Wash hands, face and all exposed skin thoroughly after handling
P280	Wear protective gloves and clothing, eye and face protection
P285	In case of inadequate ventilation wear respiratory protection

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RESPONSE:

P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P321	Specific treatment (see supplemental first aid instruction on label)
P304 + P340	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P333 + P313	If skin irritation or rash occurs, seek medical advice
P362 + P363	Remove contaminated clothing and wash before reuse
P342 + 311	If experiencing respiratory symptoms, seek medical advice

STORAGE:

P403 + P233 + P235	Store in a well-ventilated area. Keep container tightly closed. Keep cool.
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DISPOSAL:

P501	Dispose of contents / container in accordance with local, regional, national and international regulations.
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OTHER HAZARDS:

- **Physical:** Not applicable.
- **Health:** Respiratory sensitization Category 1
- **Environmental:** Not applicable

Please look over section 11 for toxicological information.

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Rail and Road" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

Mixture of substances listed below with nonhazardous additions.

CHEMICAL ENTITY	CAS NO	EINECS No	CONC. (%w/w)
4,4-methylenediphenyl diisocyanate	101-68-8	202-966-0	< 1
Glycidyoxypropyltrimethoxysilane	2530-83-8	219-784-2	< 1
Xylene	1330-20-7	215-535-7	1 - 5

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

General Advice: Take off contaminated work clothing immediately. If you feel unwell, seek medical advice. Symptoms of poisoning may even occur after several hours; therefore, continue medical observation for at least 48 hours after the accident.

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Inhalation: Remove victim from exposure & into fresh air. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). Do NOT use solvents or thinners on your skin. Seek medical advice if signs of irritation appear.

Eye contact: If in eyes wash out immediately with water for at least 15 minutes whilst holding eyelids open. In all cases of eye contamination, it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice and show this container or label.

PPE for First Aiders: Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Important Symptoms and Effects of Both Acute and Delayed: No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed: No data available.

Notes to Physician: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable Extinguishing Media: Carbon dioxide, sand, extinguishing powder. Do not use water.

Unsuitable Extinguishing Media: High volume water jet.

Specific Hazards Arising from the Mixture: Hazardous decomposition products may be formed under fire conditions. Exposure to decomposition products may be a hazard to health.

Firefighting further advice: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks.

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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Immediately evacuate personnel to safe areas.

Environmental Precautions: Do not allow to escape into waterways, wastewater or soil.

Methods and Materials for Containment and Cleaning Up: Ventilate area of spill; flood slowly with water to polymerase, absorb with sand / earth and dispose to chemical waste bin. Clean contaminated surface thoroughly. Keep in suitable, closed containers for disposal according to local / national regulations.

Reference to Other Sections: See section: 7, 8, 11, 12 and 13.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash your hands thoroughly after handling.

Storage: Keep container tightly closed in a dry, cool and well-ventilated place. Protect from frost, heat and sunlight. Protect from moisture. Keep away from heat. Keep away from food, drink and animal feeding stuffs.

Specific End Use (s): No data available.

8. EXPOSURE CONTROLS | PERSONAL PROTECTION

Environmental Exposure Controls: Do not flush into sanitary sewer systems / surface water or ground water.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment:

- **Eye Protection:** Safety glasses with side shields or chemical splash goggles.
- **Skin Protection:** Wear suitable protective clothing.
- **Hand Protection:** Butyl rubber/nitrile rubber gloves.
- **Respiratory Protection:** Use appropriate respiratory protective device in case of insufficient ventilation.

Hygiene Measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and

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skin contact. Avoid inhalation of dust. Ensure eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Description & Colour	Paste
Odour	Characteristic
Odour Threshold	No data available
PH	No data available
Freezing / Melting Point	No data available
Boiling Point / Boiling Range	No data available
Flash Point	No data available
Evaporation Range	No data available
Flammability	Not flammable
Explosion Lower / Upper Limits	No data available
Vapour Pressure	No data available
Density	1,20 – 1,25 g/cm ³
Bulk Density	No data available
Solubility	Insoluble in water at 23°C
Coeff Oil / Water Distribution:	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Flow Time	No data available
Explosive Properties	Not explosive
Oxidising Properties	Not oxidizing
VOC	Less than 50g/l

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: The product is chemically stable under normal temperature conditions and recommended use.

Possibility of Hazardous Reactions: No hazardous reactions known.

Conditions to Avoid: No data available.

Incompatible Materials: No data available.

Hazardous Decomposition Products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. TOXICOLOGY INFORMATION

Toxicological information of the main substances found in the mixture:

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Acute toxicity values:

4,4-methylenediphenyl diisocyanate (CAS. No: 101-68-8)

LD50 (Oral): 31600 mg/kg - Rat

LD50 (Dermal) > 5000 mg/kg - Rabbit

LC50 (Inhalation): 0.369 mg/l – Rat - Duration: 4h

Skin Corrosion/Irritation:

Not classified based on available information. Contains isocyanates. May produce an allergic reaction.

Serious Eye / Eye Irritation: Not classified based on available information. Contains isocyanates. May produce an allergic reaction.

Respiratory or Skin Sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive Toxicity: Not classified based on available information.

STOT – Single Exposure: Not classified based on available information.

STOT – Repeated Exposure: Not classified based on available information.

Aspiration Toxicity: Not classified based on available information.

12. ECOLOGICAL INFORMATION

The product should not be allowed to enter drains, water courses or the soil.

Toxicity: No data available.

- Toxicity Values:**

4,4-methylenediphenyl diisocyanate (CAS. No: 101-68-8)

LC50: Fish >1000 mg/l - Duration: 96 h

EC50: Daphnia >1000 mg/l - Duration: 24 h

LC50: Algae >1640 mg/l - Duration: 72 h

Persistence and Degradability: No data available.

Bio accumulative Potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB Assessment: No data available.

Other Adverse Effects: This product should not be allowed to enter drains, water courses or the soil.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

16. OTHER INFORMATION

Indication of Changes to Previous Version

Preparation Date: 01/03/2025

Abbreviations and Acronyms

PBT: Persistent, bio accumulative and toxic according to 1907/2006/EC, Annex XIII.

vPvB: Very persistent and very bio accumulative according to 1907/2006/EC, Annex XIII.

CAS No: Chemical abstract service index number.

EC50: Half maximal effective concentration.

LC50: Median lethal concentration.

LD50: Median lethal dose.

Special Information of Certain Preparations: Contains Diphenylmethane-4,4'-Di-Isocyanate. Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Contains isocyanates. See information supplied by manufacturer. Wear suitable gloves. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep out of the reach of children. Dispose of this material and its container to hazardous or special waste collection point.

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All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. The company supplying entity shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

Guarantee/Warranty:

We warrant our products to be free of defects and manufactured to rigid quality control specification. As it is impossible to control the use and application of the products, the company's liability is limited to replacing such quantities of product as are proven to be defective. The company disclaims any claims for caused by discolouration or yellowing due to vapour or chemicals caused by painting or chemicals to cause reaction to the product or labour resulting from the use of the product. No responsibility is assumed for consequential damages arising from the use of the product. All other warranties including (merchantability or fitness for a particular purpose) are excluded. No representative of the company is authorised to grant any warranty or waive this limitation of liability. All claims concerning product defects must be made within twelve months of shipment. Absence of such claim in writing during this period will constitute a waiver of all such claims with respect to such product.