HARDTACK
SPECIALIST ADHESIVES

POLYURETHANE CONSTRUCTION ADHESIVE (Medium)

SAFETY DATA SHEET

1. Identification of the substance/mixture and supplier

Product Name:	**Polyurethane Construction Adhesive**
Recommended use:	Adhesive
Supplier:	Capital Cutters (A C Bilham Ltd)
Street Address:	4 Chanel Grove, Waterloo, Lower Hutt
Telephone Number:	+64 22 3003 084
Emergency Telephone:	National Poison information Centre – 0800 POISON (774 776)
Date of Issue:	12th August 2025

2. Hazards identification

ERMA Approval: HSR002670

Not classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land.
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017.

Danger: Toxic to human target organs or systems.

Warning: Reacts slowly with water to produce carbon dioxide but reaction accelerate at higher temperatures. Toxic gases/fumes maybe given off during burning or thermal composition. Closed container may forcibly rupture under extreme heat or when contents have been contaminated with water. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.



6.1E(Oral); 6.3A; 6.4A; 6.5A(Respiration); 6.5B(Contact); 6.9A(Inhalation)

Hazard statements:

H303: May be harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372: Causes damage to organs through prolonged or repeated exposure.

Prevention Statements:

P102: Keep out of reach of children.
P103: Read label before use.
P260: Do not breathe fumes/mist/vapours/dust/spray.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear suitable respiratory protection.

Response Statements

P101: If medical advice is needed, have product container or label at hand.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+P311: IF exposed: Call a POISON CENTER or doctor/physician.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P314: Get medical advice/attention if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
P362: Take off contaminated clothing and wash before re-use.
P363: Wash contaminated clothing before reuse.

Storage Statements

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal Statements

P501: Do not let product enter the environment. Do not dispose of in waterways or sewers. Unwanted product should be brushed out on newspaper, allowed to cure, and then disposed of via domestic waste collection. Empty containers should be left open in a well-ventilated area to

cure. When cured, recycle the container via recycling programs. Disposal of empty containers via domestic recycling programs may differ between local authorities. Check with your local council first.

3. Composition/information on ingredients

Methylenediphenylene isocyanate prepolymer	39420-98-9	30-60%	
4'-Methylenebis(phenyl isocyanate)	101-68-8	10-30%	R20, R36/37/38, R42/43
Diphenylmethane diisocyanate homopolymer	25686-28-6	5-15%	
Diphenylmethane Diisocyanate mixed polymers	26447-40-5	<1%	

4. First-aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre, phone 0800 764 766.

Ingestion: Immediately rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical assistance.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing

Skin Contact: Wipe material from skin with cloth or absorbent paper. Wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before re-use. Traces of cured material (after water contact) is not considered hazardous. Do NOT remove with solvent. Allow to peel off naturally or hasten by soaking in tepid to warm water. If skin irritation or rash occurs get medical advice/attention.

Eye Contact: 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.

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

5. Fire-fighting measures

Hazards from combustion: On burning may emit toxic fumes including those of carbon oxides, nitrogen oxides, isocyanate vapours and hydrogen cyanide.

Fire-fighting advice: Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. Accidental release measures

Emergency procedures: If contamination of sewers or waterways has occurred advise local emergency services.

Methods for containment & clean up:

For small spills: Quickly wipe up material before it cures, with cloth or absorbant paper avoiding skin contact. Uncured material will dissolve in acetone or acetone based nail polish remover. Cured material can only be removed by abrasion.

For large spills: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Scrape up material before it cures. Collect and seal in properly labeled containers for disposal. Wash area down with excess water. Cured material can only be removed by abrasion.

7. Handling and storage

Handling advice: Avoid skin and eye contact.

Storage advice: Store in a cool place and out of direct sunlight. Store away from acids, alcohols, oxidizing agents, moisture and sources of heat or ignition. Keep dry, reacts with water; may lead to drum rupture. Keep containers closed at all times, check regularly for leaks.

8. Exposure controls/personal protection

Occupational Exposure Limits:

No value assigned for this specific material by Worksafe NZ. However, NZ Workplace Exposure Standard(s) for constituent(s): Isocyanates, all (as-NCO): TWA 0.02 mg/m3; STEL 0.07 mg/m3, sen, NZ. These values apply to all isocyanates, including prepolymers, present in the workplace air as vapours, mist or dust.
As published by the New Zealand Occupational Safety and Health Service (OSH)

Sen – a substance that can 'sensitise' the respiratory system, inducing a state of hypersensitivity to it, so that on subsequent exposures, an allergic reaction can occur (which would not develop in non-sensitised individuals). It is uncommon to become sensitised to a compound after just a single reaction to it.

Engineering Control Measures:
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well-ventilated area. Keep containers closed when not in use.

Personal Protective Equipment:
Avoid skin and eye contact and inhalation of vapour or spray. Wear overalls, safety boots, full-face visor and general-purpose gloves (PVC). Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715

and AS/NZS 1716. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. Physical and chemical properties

Physical state: Opaque white paste

Solubility: Insoluble in water

Specific Gravity: 1.13

Flash Point (°C): >100°C (closed cup)

Flammability Limits (%): Not available

Boiling Point/Range (°C): 242

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Avoid contact with foodstuffs.

Incompatible materials: Reacts with alcohols, acids, oxidizing agents, and moisture.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea and abdominal pain.

Eye contact: An eye irritant.

Skin contact: Contact with skin may result in irritation. May cause skin sensitization in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Animal studies have shown that respiratory sensitisation can be induced by skin contact with known respiratory sensitisers including diisocyanates.

Inhalation: Repeated inhalation of vapour or spray mists at levels above the occupational exposure standard could cause respiratory sensitization. Symptoms may include irritation of the eyes, nose, throat and lungs, possibly with dryness of the throat, tightness of the chest and difficulty breathing. Onset of respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response may develop to even minimal concentrations of MDI in sensitized individuals.

Long Term Effects: There are reports that chronic exposure to isocyanates by inhalation, may result in a permanent decrease in lung function.

Toxicological Data:

No LD50 data available for the product. However, for constituent:

4'-Methylenebis (phenyl isocyanate): Inhalation LC50 (rat) 369 mg/cu m/4 hr, Oral LD50 (mouse) 2200 mg/kg

Diphenylmethane diisocyanate mixed polymers: Inhalation LC50 (rat) 0.49 mg/l

12. Ecotoxicological information

Avoid contaminating waterways. Material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100mg/l in most sensitive species)

13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

Empty foil or buckets should be exposed to air and left to cure. When cured, dispose of in rubbish as inert waste.

14. Transport information

Not classified as Dangerous Goods by NZS 5433 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

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017

ERMA Approval: HSR002670

Group Standard: Surface Coatings and Colourants (Subsidiary Hazard) Group Standard

Subclass 6.1 Category E – Substances which are acutely toxic.
Subclass 6.3 Category B - Substances that are mildly irritating to the skin.
Subclass 6.4 Category A - Substances that are irritating to the eye.
Subclass 6.5 Category A - Substances that are respiratory sensitisers.
Subclass 6.5 Category B - Substances that are contact sensitisers

16. Other information

This SDS summarizes to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Capital Cutters cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Capital Cutters at the contact details on page 1.

While Capital Cutters (A C Bilham Ltd) believes that the information contained herein is based on data considered accurate, no warranty or representation is expressed or implied for which A C Bilham Ltd assumes legal responsibility.

This version replaces all previous versions.

END OF SDS