BETTATHANE PU 244

Single Pack Polyurethane Sealer

1. Identification

Product Name: BETTATHANE PU-244
Recommended Use: Protective polyurethane sealer for concrete and floors
Product Code: PU-244
Uses Advised Against: Any use other than as a protective coating. Not for use by untrained applicators.
Supplier: CHEMSTUK Pty Ltd
Address: 1/11 Industrial Avenue, Thomastown VIC 3074, Australia
Phone: +61 3 9936 0531 (business hours)
ABN: 40 616 567 992
Website: chemstuk.com.au
Email: c.care@chemstuk.com
24-Hour Emergency: +61 411 120 030

Emergency Contact:
Poisons Information Centre: **13 11 26**
Emergency Services: **000**
Phone:

2. Hazard Identification

GHS Classification:

- Flammable Liquid – Category 3
- Skin Irritation – Category 2
- Eye Irritation – Category 2A
- **Skin Sensitisation – Category 1**
- **Respiratory Sensitisation – Category 1**
- Aquatic Chronic – Category
- STOT SE – Category 3

Signal Word: ⚠
Pictograms: GHS02 (Flame) · GHS07 (Exclamation Mark) · GHS08 (Health Hazard)

Hazard Statements:

- H226 Flammable liquid and vapour
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness
- EUH066 Repeated exposure may cause skin dryness or cracking
- **H317 May cause an allergic skin reaction**
- **H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled**

Supplementary information:
CONTAINS ISOCYANATES. MAY PRODUCE AN ALLERGIC REACTION.

Persons already sensitised to isocyanates may develop an allergic reaction when using this product. Persons with asthma, eczema or skin problems must avoid all contact, including skin contact. DO NOT SPRAY — apply by roller or brush only.

Precautionary Statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves, protective clothing and eye protection
- P261 Avoid breathing vapour or spray mist
- P233 Keep container tightly closed
- P240 Ground and bond container and receiving equipment
- P241 Use explosion-proof electrical, ventilating and lighting equipment
- P242 Use non-sparking tools
- P264 Wash hands thoroughly after handling
- P272 Contaminated work clothing must not be allowed out of the workplace
- P284 In case of inadequate ventilation, wear respiratory protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor
- P301 + P331 + P310 IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTRE or doctor
- P370 + P378 In case of fire: Use foam, dry chemical or carbon dioxide to extinguish

- P403 + P235 Store in a well-ventilated place. Keep cool (5–35 °C)
- P405 Store locked up
- P501 Dispose of contents and container in accordance with local, state and territory regulations

3. Composition / Information on Ingredients

Component	CAS	%
Hexamethylene diisocyanate (HDI) homopolymer, aliphatic	28182-81-2	40%
n-Butyl acetate	123-86-4	40%
Additives	Proprietary	<20 %

Residual-free HDI monomer (CAS 822-06-0): less than 0.1%. This is below the GHS disclosure threshold, so free monomer is not listed as a separate component above. It does not remove the H334 classification — Safe Work Australia records that isocyanate prepolymer aerosols can be as hazardous as the monomers in causing respiratory sensitisation.

4. First Aid Measures

Inhalation:
Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact:
Wash with soap and water. Remove contaminated clothing.

Eye Contact:
Flush with water for at least 15 minutes. Seek medical attention.

Ingestion:
Do NOT induce vomiting. Seek immediate medical assistance.

Most Important Symptoms and Effects:

Skin and eye irritation. Vapour or spray mist may cause headache, drowsiness and dizziness. This product contains isocyanates and may cause an allergic skin reaction or asthma-like symptoms. **Respiratory symptoms may be delayed by several hours after exposure.**

Indication of Immediate Medical Attention:

Any person who develops respiratory symptoms after exposure must be removed from further exposure and referred for medical assessment. Advise the doctor that the product contains isocyanates. A person who becomes sensitised must not work with isocyanates again.

5. Fire Fighting Measures

Suitable Media:
Foam, CO_2, dry chemical

Hazards:
Flammable vapours may form explosive mixtures

Protective Equipment:
Self-contained breathing apparatus

Unsuitable Media:

Do not use a water jet — it will spread the fire.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide and isocyanate vapour. Full protective clothing and self-contained breathing apparatus are required.

Additional:

Containers exposed to fire may rupture. Cool with water spray from a protected position. Do not allow firefighting run-off to enter drains or waterways.

6. Accidental Release Measures

- Eliminate ignition sources
- Ventilate area
- Absorb with inert material
- Prevent entry into drains

Personal Precautions:

Evacuate non-essential personnel. Eliminate all ignition sources. Wear chemical-resistant gloves, eye protection and, for anything beyond a minor spill, air-supplied respiratory protection.

Methods for Containment and Clean-Up:

Contain with sand, earth or inert absorbent. Do not use sawdust or other combustible material. Transfer to a labelled container and leave the container vented — the product reacts with moisture and generates carbon dioxide, which can pressurise a sealed container. Do not seal contaminated waste containers.

Decontamination:

Let it dry hard, then dispose.

7. Handling and Storage

Handling:

- Avoid inhalation of vapours
- Use PPE
- No smoking
- **Do not spray — roller or brush application only**

Storage:

- Store between 5–35°C
- Keep container tightly closed
- Keep away from ignition sources

Once opened, use the entire contents. The product cures on contact with atmospheric moisture. Part-used containers will skin or gel and cannot be reliably stored.

Do not store or transfer into sealed containers that may be contaminated with water, alcohols or amines — reaction with the isocyanate generates carbon dioxide and can pressurise or rupture the container.

Shelf life: 12 months unopened from the date of manufacture, stored between 5 °C and 35 °C.

8. Exposure Controls / Personal Protection

Exposure Limits (Safe Work Australia):

- n-Butyl acetate:
    - TWA: 150 ppm (713 mg/m³)
    - STEL: 200 ppm (950 mg/m³)

PPE:

- Safety goggles
- Chemical-resistant gloves
- Protective clothing
- Do not spray. If ventilation is inadequate, wear appropriate respiratory protection

DO NOT SPRAY. Spray application is not approved for this product. Apply by roller or brush only. Spraying generates respirable isocyanate aerosol; cartridge and filter respirators do not protect against it.

Isocyanate exposure standard:

With free HDI monomer below 0.1%, vapour-phase isocyanate exposure during roller or brush application is expected to be low. The significant inhalation risk is aerosol-borne prepolymer, which is why spray application is not approved for this product.

Engineering Controls:

Use local exhaust ventilation or forced ventilation sufficient to keep airborne concentrations below the exposure standards. Explosion-proof equipment. Eyewash station and safety shower in the work area.

Health Monitoring:

Health monitoring obligations may apply under the WHS Regulations to workers exposed to isocyanates. Refer to the regulator in your jurisdiction.

9. Physical and Chemical Properties

Property	Value
Appearance	Liquid

Property	Value
Colour	Clear
Odour	Solvent
Density	~0.9 kg/L
Flash Point	32°C (closed cup)
VOC	Max. 350 g/L
Solubility	Insoluble in water

10. Stability and Reactivity

- Stable under normal conditions
- Avoid heat, sparks and open flames
- Incompatible with strong oxidisers
- Reacts with water, moisture, alcohols and amines, releasing carbon dioxide. Pressure may build up in sealed or contaminated containers
- Hazardous polymerisation may occur on contact with water, strong bases or metal compounds
- Hazardous decomposition products: carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, isocyanate vapour

11. Toxicological Information

- Skin and eye irritation
- Vapours may cause dizziness
- Respiratory sensitisation: may cause allergy or asthma symptoms or breathing difficulties if inhaled. Once sensitised, an individual may react to very low concentrations
- Skin sensitisation: may cause an allergic skin reaction
- Aspiration hazard: n-Butyl acetate does not carry H304.

12. Ecological Information

- Harmful to aquatic life
- Avoid environmental release

13. Disposal Considerations

Dispose of according to local regulations.
Do not pour into drains.

Cured product may generally be disposed of as non-hazardous waste. Uncured product and contaminated packaging are hazardous waste and must be disposed of through a licensed contractor. Do not seal containers holding uncured residues — vent them, as reaction with moisture generates carbon dioxide. Empty containers retain product

residue and vapour and remain hazardous.

14. Transport Information (ADG Code)

⚠ Based on Flash Point 32°C

- **UN Number:** UN 1263
- **Proper Shipping Name:** PAINT
- **Class:** 3
- **Packing Group:** III
- **Hazchem Code: 3Y (based on a flash point of 32°C — see Section 9)**
- **Environmental Hazard:**
- Limited Quantity provisions of the ADG Code may apply to 4 L and 15 L retail packs. Confirm before consigning
- **This product is a single-pack product. There is no Part B and UN 1760 does not apply**

15. Regulatory Information

Classified according to:

- GHS
- Safe Work Australia — Model WHS Regulations and the Hazardous Chemical Information System
- GHS Revision 7, mandatory in Australia since 1 January 2023
- Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code)
- Standard for the Uniform Scheduling of Medicines and Poisons (Poisons Standard)
- Industrial Chemicals Act 2019 — confirm all components are listed on the Australian Inventory of Industrial Chemicals

16. Other Information

Date of Preparation:

Revision: 4 — supersedes Rev 3 / 2026. Reissued to correct the GHS classification (addition of skin and respiratory sensitisation, signal word changed from Warning to Danger) and the VOC figure.

Next Review Due: 01/02/2028

Abbreviations:

ADG — Australian Dangerous Goods Code. ATE — Acute Toxicity Estimate. CAS — Chemical Abstracts Service. GHS — Globally Harmonised System of Classification and Labelling of Chemicals. PPE — Personal Protective Equipment. STEL — Short Term Exposure Limit. STOT SE — Specific Target Organ Toxicity, Single Exposure. TWA — Time Weighted Average. WHS — Work Health and Safety.

Disclaimer:

The information in this Safety Data Sheet is based on the knowledge available to Chemstuk Pty Ltd at the date of issue. It is provided in good faith as a guide to the safe handling, use, storage, transport and disposal of the product. It is not a specification and does not guarantee any particular property. Users must satisfy themselves that the product is suitable for their intended application.