



POLYURIT PU-232 — Part B (Hardener)

Isocyanate Hardener Component

Chemstuk Pty Ltd

1. Identification

Product Name: POLYURIT PU-232 — Part B (Hardener)

Recommended Use: Hardener component of a two-component polyurethane floor coating

Supplier: Chemstuk Pty Ltd, Thomastown VIC, Australia

Emergency Contact: Poisons Information Centre 13 11 26 / Emergency 000

2. Hazard Identification

GHS Classification:

Flammable Liquid – Category 3 (H226)

Skin Irritation – Category 2 (H315)

Skin Sensitiser – Category 1 (H317)

Eye Irritation – Category 2A (H319)

Respiratory Sensitiser – Category 1 (H334)

Specific Target Organ Toxicity, Single Exposure – Category 3, narcotic effects (H336)

Signal Word: DANGER

Pictograms: GHS02 (flame), GHS07 (exclamation mark), GHS08 (health hazard)

Hazard Statements: H226 Flammable liquid and vapour; 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; H336 May cause drowsiness or dizziness.

EUH066: Repeated exposure may cause skin dryness or cracking.

Persons already sensitised to isocyanates may react at very low concentrations. Persons with asthma, eczema or other skin conditions must not use this product. Respiratory symptoms may be delayed by several hours after exposure.

3. Composition / Information on Ingredients

Hexamethylene diisocyanate (HDI) homopolymer, aliphatic — 80% — CAS 28182-81-2

n-Butyl acetate — 20% — CAS 123-86-4

[Chemstuk to confirm: residual free HDI monomer content of this batch/grade.]

4. First Aid Measures

Inhalation: Move to fresh air immediately. Seek medical advice — respiratory symptoms may be delayed by several hours.

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

Eye Contact: Rinse cautiously with water for at least 15 minutes. Seek urgent medical attention.

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

5. Fire Fighting Measures

Suitable Media: Foam, CO₂, dry chemical.

Hazards: Flammable vapours may form explosive mixtures. Toxic fumes (including isocyanate vapour) may be released in fire.

Protective Equipment: Self-contained breathing apparatus.

6. Accidental Release Measures

Remove ignition sources.

Wear appropriate PPE, including respiratory protection.

Contain and absorb with inert material.

Prevent entry into drains or waterways.

7. Handling and Storage

Use only in well-ventilated areas, away from ignition sources.

Store between 5–35°C, sealed, away from moisture (reacts with water).

8. Exposure Controls / Personal Protection

Exposure Standard (Safe Work Australia, all isocyanates): TWA 0.02 mg NCO/m³; STEL 0.07 mg NCO/m³. Applies to prepolymer aerosols as well as free monomer.

PPE: Chemical-resistant gloves, safety goggles/face shield, protective clothing.

Respiratory Protection: Air-supplied respiratory protection required for spray application. Cartridge and filter respirators do NOT provide adequate protection against isocyanate spray aerosol.

Spraying must be carried out only by trained applicators, in controlled and ventilated conditions, with all other persons excluded from the area.

9. Physical and Chemical Properties

Appearance: Liquid

Flash Point: [Chemstuk to confirm — not yet measured for this blend]

Density: ~1.09 kg/L (calculated from component densities; to be confirmed by measurement)

10. Stability and Reactivity

Stable under normal conditions.

Reacts with water and moisture (releases CO₂; risk of pressure build-up in sealed containers).

Avoid heat, sparks, open flames and strong oxidisers.

11. Toxicological Information

Skin sensitiser; may cause allergic skin reaction.

Respiratory sensitiser; may cause allergy or asthma symptoms or breathing difficulties if inhaled.

Causes serious eye irritation.

12. Ecological Information

Avoid environmental release.

Harmful to aquatic life.

13. Disposal Considerations

Dispose according to local regulations.

Do not discharge into drains.

Allow to fully react/cure before disposal where possible, to reduce free isocyanate content.

14. Transport Information

[Chemstuk to confirm — this Part B blend (80% HDI homopolymer, 20% n-butyl acetate) requires its own dangerous goods classification, separate from Part A. Until confirmed, do not assume the Part A classification (UN 1263, Class 3, PG III) applies unchanged to Part B.]

15. Regulatory Information

Complies with Safe Work Australia and GHS requirements.

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

16. Other Information

Issue Date: 2026

Revision: PU 232 / REV 3 (Part B)

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