



Technical Data Sheet

- Maximum strength one part clear polyurethane
 - For internal and external use
 - 10 minutes working time
 - Weather proof
 - Resistant to acid and chemicals
 - Can stained and painted

Description

A one part, solvent-free, quick setting, moisture curing polyurethane adhesive specially formulated for water-resistant bonding and fast setting (BSEN204 D4 Classification).

Uses

PU WOOD ADHESIVE has excellent adhesion to wood, chipboard, laminate, metals, glass, ceramic, polyurethane, expanded and extruded polystyrene foams, concrete, stone, bricks, gypsum boards and all traditional porous substrates.

Preparation

Ensure all surfaces are clean, dry and free from grease, oil or any other contaminants that may hinder adhesion.

Application

One of the surfaces must be porous, abrade non-porous surfaces. To achieve maximum bond strength and assist cure, slightly moisten one surface with a damp cloth. Do not over wet. Apply a thin layer of adhesive evenly to one surface only.

Assemble parts immediately and clamp.

Setting time will be achieved after 1 – 2 hours with final bond strength after 24 hours.

Final and full bond strength will be achieved after 24 hours and handling during this period should be kept to a minimum.

NOTE: The product foams slightly on application to fill small gaps. Any excess foam/adhesive must be removed with acetone before the product sets, or with a sharp chisel once set.

Wipe off extruded wet glue immediately with a dry cloth.

When dry remove mechanically.

Setting Time

Open time of approximately 6 - 10 minutes.

Setting time will be achieved after 1 – 2 hours with final bond strength after 24 hours.

Shelf Life

6 months @ 5-25oC.

Storage Conditions

Store in cool, dry and well ventilated conditions.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Remove any containers to a central disposal point in accordance with local regulations.

Health & Safety

Contains isocyanates. Avoid eye contact. In the event of contact wash with running water for 15 minutes and seek medical attention. Wear goggles. Ensure good ventilation. Do not breathe vapours. Harmful by inhalation. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (if possible show the label). Avoid prolonged contact with skin. Wear gloves. In the event of contact, drench skin with running water for at least 10 minutes. Seek medical advice if burns appear on skin or signs of poisoning are evident. Thoroughly wash hands with soap and water or a proprietary hand cleaner after use. Keep out of reach of children. See separate material safety data sheet for full handling, use and storage.

The information supplied herein is accurate to the best of our knowledge. Since conditions and methods are beyond our control, no warranty is expressed or implied. You are advised to assess the suitability of the product on a test area before application

Further information may be obtained from:

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Date of issue: October 2009

MATERIAL SAFETY DATA SHEET -----

Poly PU

1. PRODUCT & COMPANY IDENTIFICATION

Polyvine Ltd
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Sharpness, Berkeley, Glos GL13 9UQ
Telephone 0845 017 1671
Fax 0845 017 1670

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1: Chemical characterisation: Adhesive based on diphenylmethanediisocyanate.

2.2: Ingredients contains:

CAS/Registry No	Material Description	% Content	Risk phase
101-68-8	diphenylmethanediisocyanate.	<1%	20-36/37/38-42/43

3. POTENTIAL HAZARDS

3.1: Main hazards

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact

4. FIRST AID MEASURES

4.1: Eye contact: Immediately flush with water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contacts the entire surface of eyes and lids. Seek immediate medical attention.

4.2: Skin contact: Remove with dry cloth or paper towel Wash affected area with soap and water for 15 minutes. Remove contaminated clothing. In cases of prolonged irritation, seek medical advice.

4.3: Inhalation : If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice

4.4: Ingestion : If swallowed, do not induce vomiting. Obtain medical attention.

5. FIRE FIGHTING MEASURES

5.1: Extinguishing media:

Vaporizing liquid type, powder, foam or CO2, Water spray fog or mist.

5.2: Hazardous Decomposition Products

High temperatures generate carbon dioxide (CO2), carbon monoxide (CO)

6 ACCIDENTAL RELEASE MEASURES

6: Major spills: Shovel into suitable dry containers for disposal
Soak up residue with inert material. Ensure residue does not gain access to watercourses.

7 HANDLING & STORAGE

7.1 Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Use in well ventilated areas and avoid breathing of dust. Use an approved respirator if air is contaminated above acceptable levels.

7.2 Store away from food and other ingredients.

Store in cool, dry conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure controls.

ENGINEERING CONTROLS: The following exposure control techniques may be used to effectively minimise employee exposure: local exhaust ventilation, enclosed system design, process isolation and remote control in combination with appropriate use of personal protective equipment and prudent work practices. These techniques may not necessarily address all issues pertaining to your operations. We, therefore, recommend that you consult with experts of your choice to determine whether or not your programmes are adequate.

Occupational exposure limits: MAC difenylmethane-4, 4'-diisocyanate (MDI): 0, 02 ppm (short time exposure value)

0,005 ppm (long time exposure value)

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and airflow patterns should be provided to keep air contaminant concentrations below acceptable levels. Refer to section 2 Composition/Information on Ingredients which details specific exposure limits where applicable.

8.2. Personal Protection: Wear synthetic protective clothing (aprons and boots) if contact is likely.

Where air contamination can exceed acceptable criteria, use approved respiratory protection equipment. Respirators should be chosen based upon the form and concentration of the air contaminants. Use goggles and face shield if contact is likely. Wear gloves as required to prevent skin contact.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: high viscous

Colour: brown

Odour: slight

Density (water=1): 1, 13 g/ml

pH (water=7): Unk

Boiling point (water =100) : >200 °C

Freezing point (water = 0): Unk °C

VOC-content: 0 Weight-%

Flash point : >200 °C

Lower explosion limit: NA vol-%

Upper explosion limit: NA vol-%

Ignition temperature: >300 °C

Vapour pressure: Unk mbar

Mixable with water: no

Mixable with organic solvents: yes

Further information:

10. STABILITY & REACTIVITY

Hazardous decomposition products: In case of fire: CO, NO_x, HCN.

Materials to avoid: Alcohol, amines, acids and bases. Reacts with water to carbon dioxide.

Conditions to avoid: Unknown.

11. INFORMATION ON TOXICITY

Product information

Acute oral LD50 (mg/kg): Unknown.

Acute dermal LD50 (mg/kg): Unknown.

Acute inhalation LC50 (mg/l): Unknown.

Other information: May cause sensitisation by inhalation and skin contact.

For information on hazardous substances see 'chapter' 2.

12. INFORMATION ON ECOLOGICAL EFFECTS

Avoid uncured product in the environment.

Degradability: Unknown.

Ecotoxicity: Unknown.

WGK (Germany): 1 (self classification)

13. DISPOSAL

Disposal : Dispose according to local regulations.

14. TRANSPORT

By sea according IMDG-Code: Not applicable.

By land according ADR: Not applicable.

By air according ICAO/IATA-DGR: Not applicable.

UN-number: Not applicable.

Proper shipping name: Not applicable.

15. REGULATIONS

To the labelling requirements of EC Directives 67/548/EC and 1999/45/EC:

Danger symbol: **Xn** Harmful

Contains: Diphenylmethanediisocyanate, isomers and homologues

R-phrases: **20** Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

42/43 May cause sensitisation by inhalation and skin contact.

S-phrases: **2** **Keep** out of reach of children.

23 Do not breath vapour.

24 Avoid contact with skin.

37 Wear suitable gloves.

45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

63 In case of accident by inhalation: remove casualty to fresh air and

keep at rest.

Extra information: Contains isocyanates. See information supplied by the manufacturer.

16. FURTHER INFORMATION

This product safety data sheet conforms to EC Directive 91/155/EEC as well as its amendments including 2001/58/EC.

This data is offered in good faith as typical values and not as product specifications. No warranty either expressed or implied, is hereby made.

The recommended industrial and safe handling procedures are believed to be generally applicable; each user should review the recommendations

in the specific context of the intended use and determine whether they are appropriate.

NA: Not Applicable

Unk: Unknown