

PRODUCT SAFETY DATA SHEET



POLYURETHANE CONSTRUCTION ADHESIVE

Issue: 2. Issue Date: 05/05/2005.

Page 1 of 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME. **Polyurethane Construction Adhesive.**

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2. COMPOSITION / INFORMATION ON INGREDIENTS.

INGREDIENT NAME.	CAS.No	CONTENTS W/W %	HEALTH (Class)	RISK (R No.)
Diphenylmethane 4, 4-di-isocyanate (MDI) monomer.	101-68-8	25 – 50	Xn	20-36/37/38-42/43
Isomers & Homologues				

3. HAZARDS IDENTIFICATION

- Harmful by inhalation.
- Irritating to eyes, respiratory system and skin (R36/37/38).
- May cause sensitisation by inhalation and skin contact (R42/43).
- Contains Isocyanates.
- Low hazard once fully cured.
- In fire , formation of carbon monoxide, nitrogen oxide, Isocyanate vapour and traces of hydrogen cyanide is possible

4. FIRST AID MEASURES.

SKIN CONTACT

- After contact with skin, wash immediately with copious amounts of soap and water. (28).
- Do not use solvents to clean the skin.
- Seek medical attention if irritation persists.
- Apply cream to the clean skin

EYE CONTACT.

- In case of contact with eyes, rinse immediately with plenty of clean water, keeping eyelids open and seek medical advice (S26)

INGESTION.

- Seek immediate medical attention.
- Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected seek immediate medical attention.

INHALATION.

- Remove patient to fresh air and keep warm and at rest.
- Persons who have inhaled the substance may not exhibit symptoms immediately Seek medical attention if ill effects occur.

PRODUCT SAFETY DATA SHEET (Continued)

POLYURETHANE CONSTRUCTION ADHESIVE.

Issue:- 2 Issue Date. 05/05/2005

Page 2 of 4

5. FIRE FIGHTING MEASURES.

- In case of fire use foam, carbon dioxide or dry extinguishing agent (S43).
- Substance evolves toxic fumes; wear self – contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES.

- Ventilate area.
- Absorb spillage in suitable inert material. After approx. 1 hour transfer to waste container . DO NOT seal (evolution of CO²)
- Sweep or shovel up spillage and remove to a safe place.
- Keep damp in safe ventilated area for several days..

7. HANDLING AND STORAGE.

- DO NOT breathe vapours (S23)
- Use only in well ventilated areas (S51)
- Avoid contact with skin and eyes.
- If applying this product by spray, the provision of a spray booth or similar enclosure is essential.
- Ensure adequate ventilation or exhaust ventilation in the work area.
- Keep away from foodstuffs, drinks and tobacco.

- Store away from food, drink and animal feeding stuffs (S13)
- Keep container tightly closed and dry(S7/8)
- Store above 5°C
- Do not store above 25°C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

INGREDIENT .

	LT EXP (8 Hrs)	ST EXP (15 Min)
Diphenylmethane 4, 4-di-isocyanate (MDI) monomer	ppm 0.02 mg/m ³	ppm 0.07 mg/m ³

- Wear suitable protective clothing, including eye/face protection and gloves. (Plastic or rubber is recommended.)
- In case of insufficient ventilation, wear suitable respiratory equipment (S38).
- An air fed mask, or for short periods of work, a combination of charcoal filter and particulate filter is recommended.
- In cases of hypersensitivity of the respiratory tract(Asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with this product.

PRODUCT SAFETY DATA SHEET (Continued)

POLYURETHANE CONSTRUCTION ADHESIVE.

Issue: 2. Issue Date. 05/05/2005

Page 3 of 4

9. PHYSICAL AND CHEMICAL PROPERTIES.

Appearance.	Cream Paste	Odour.	Slight.
pH.	N/A.	Flash Point.	Above 200°C.
Flammability.	Non Flammable Liquid.	Auto Ignition Temp.	Above 400°C.
Oxidising Properties.	N/A.	Viscosity @ 25°C.	3000 cP Approx.
Relative Density @ 20°C.	1.45g/cm ³ .	Solubility in Water.	Insoluble. – Reacts.

10. STABILITY AND REACTIVITY

Thermal decomposition. Polymerises at approximately 260°C. with evolution of CO².

Hazardous decomposition. No hazardous decomposition products when stored and handled correctly.

Hazardous Reactions. Exothermic reaction with amines, alcohols, acids and alkalis.
Reacts with water forming CO².
Closed containers may rupture owing to increase of pressure.

Open pressurised containers carefully to release pressure

11. TOXICOLOGICAL INFORMATION.

LD Oral (Rats). Above 15000 mg/kg.

LC Inhalation (Rats). 370 mg as aerosol / m³. 4 hr exposure

Effects of exposure. a) Eyes. Strong irritation, lachrymation, burning.
b) Skin. Dehydration. Possible sensitisation.

Special Properties/Effects. Respiratory system(vapour in high concentration) irritation of the mucous membrane in the nose, throat and lungs
Dryness of the throat, pressure on the chest, sometimes accompanied by breathing difficulties and headache.
Delayed appearance of symptoms and allergic reaction in susceptible persons possible.

12. ECOLOGICAL INFORMATION.

Do not allow to enter waterways, drains or soil. The product reacts with water at the interface, forming CO² and a solid, insoluble product with high melting point (Polyurea).
This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents.

13. DISPOSAL CONSIDERATIONS

Disposal of the wet adhesive is governed by the Control of Pollution (Special Wastes) Regulations 1980. Non-recoverable waste should be disposed of via a licensed waste disposal contractor.

PRODUCT SAFETY DATA SHEET (Continued)

POLYURETHANE CONSTRUCTION ADHESIVE.

Issue. 2. Issue Date. 05/05/2005

Page 4 of 4

14. TRANSPORT INFORMATION

- Not Applicable. Not classified as hazardous

15. REGULATORY INFORMATION

LABEL FOR SUPPLY :



Harmful, Xn

RISK PHRASES :

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitisation by inhalation and skin contact.

SAFETY PHRASES :

S23. Do not breathe vapour.
S26. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28. After contact with skin, wash immediately with plenty of soap and water.
S36/37. Wear suitable protective clothing and gloves.
S38. In case of insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell, seek medical advice immediately. (Show product label if possible.)

16 OTHER INFORMATION

THE INFORMATION GIVEN IN THIS DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER NOWARRANTY, GUARANTEE OR REPRESENTATION IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY THEMSELVES AS TO THE SUITABILITY OF SUCH INFORMATION FOR THEIR OWN USE