

ToughBond+ PU Adhesive

Safety Data Sheet

(17th April 2012)

(version 1)

Product Identification

Trade Name:	PU Wood Adhesive.
Description:	A one part, solvent-free, quick setting, moisture curing polyurethane adhesive specially formulated for water-resistant bonding and fast setting.

Hazardous Ingredients

Adhesive containing a polyurethane pre-polymer based on diphenylmethanediisocyanate.

Component	CAS Number	Classification	Concentration
Diphenylmethanediisocyanate Isomeres & homologues.	9016 – 87-9	Xn; R20-36/37/38-42/43	40-50%

Hazard Identification

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

Emergency and First Aid

After Eye Contact:	Irrigate immediately with clean water for 15 minutes and obtain medical attention.
After Skin Contact:	Remove any clothing soiled by the product. Remove contamination with proprietary skin cleaner, followed by washing with soap and water. This procedure should also be followed prior to eating, drinking, smoking and toilet functions.
After Ingestion:	Rinse mouth and throat with water immediately. Do not induce vomiting. Seek medical advice immediately. If possible show product information or label to medical advisor.
After Inhalation:	Remove person to fresh air. If required provide artificial respiration. If discomfort persists seek medical advice. In case of unconsciousness, place patient stably in side position for transportation.

Exposure Control/Personal Protection

	Short Term Value	Long Term Value
Diphenylmethane-4,4' diisocyanate		
Respiratory Protection:	In case of brief exposure or low pollution use respiratory filter device (filter B). In case of intense or longer exposure use respiratory protective device that is independent of circulating air.	
Hand Protection:	Protective gloves made from PVA or nitrile rubber.	
Eye Protection:	Wear chemical resistant goggles.	
Skin Protection:	Wear appropriate protective clothing.	

Toxicological Information

Inhalation Rat LC50/15min = 5mg/l
Dermal Rat LD50 = 2000mg/kg
Oral Rat LD50 = 2000mg/kg

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Accidental Release Measures

Wear personal protection equipment. Avoid contact with eyes and skin. Avoid inhaling mists and vapours; ensure adequate ventilation and use respirators against the effects of fumes/dust/aerosol. Do not induce into sewerage or in waters. Dam in any fluid that runs out using suitable material (e.g. earth). Do not flush away with water. Take up mechanically and dispose of in accordance with current legislation and regulations. Clean any slippery coating that remains using a cold cleaner (e.g. water surfactant blend).

Handling and Storage

Handling: Ensured adequate ventilation. Open and handle containers with care.

Storage: Store only in unopened, original containers in a cool and dry location.

Physical and Chemical Properties:

Appearance:	Brown liquid.
Odour:	Light.
Density:	1.03g/cm ³ @ 20°C.
Self Ignition Temperature:	>200°C.
Solubility (water & fat):	Insoluble.
Organic Solvents:	<0%.
Boiling Point / Range:	>200°C.
Decomposition Temp:	>140°C.
Viscosity @ 20°C:	300,000 mpa.

Stability and Reactivity

No decomposition if used according to specifications. Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water forming carbon dioxide. Danger of containers bursting because of vapour overpressure.

Ecological Information

Water hazard class 1 (German Regulation) – slightly hazardous for water.

Waste Disposal

Disposal of material should be by incineration in accordance with local regulations. Completely discharge containers, they may be recycled or reused if decontaminated with a mixture of sodium carbonate and 95% of water and left to react for several days until reaction ceases.

Transport Information

No regulations apply for the transportation of this material. Not classified as hazardous for road, rail, sea or air transport.

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Fire Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide (CO ₂), extinguishing powder or water spray.
Unsuitable Extinguishing Media:	Water jet.
Fire Hazards:	Carbon Monoxide (CO), Nitrogen Oxides (NO _x). In certain fire conditions, traces of other toxic gases cannot be excluded such as Hydrogen cyanide (HCN), Isocyanates.
Protective Equipment:	Wear self-contained respiratory protective device.

Regulatory Information

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
S2	Keep out of reach of children.
S23	Do not breathe vapour.
S24	Avoid contact with skin.
S37	Wear suitable gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately and show the label where possible.
Label Information:	Contains: Isocyanates, EEC Symbol, Xn: Harmful.

Disclaimer

The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request (small fee may be required for this service). This company shall not be held liable for any damage resulting from handling or from contact with the above product