



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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Cape Town	Website	<a href="http://www.alcolin.com">www.alcolin.com</a>
<b>TRADE NAME</b> <b>ALCOLIN WATERPROOF GLUE</b>	Chemical abstract no.	Mixture
Chemical family    Isocyanate hardener	NIOSH no.	Unknown
Chemical name     None	Hazchem code	None
Synonyms           None	UN no.	None

### 2. COMPOSITION / INFORMATION OF INGREDIENTS

Ingredient	CAS No.	Approx	Hazard Classification & Risk Phrases	EEC No
4,4'-methylenediphenyldiisocyanate; diphenylmethane-4,4'-diisocyanate	101-68-8	75-90%	Xn, R20, R36/37/38, R42/43	202-966-0

### 3. HAZARDS IDENTIFICATION

Main hazard:	Irritant, Harmful by Inhalation
Health effects: Eyes	Moderate irritant to eyes
Health effects: Skin	Mild irritant on skin
Health effects: Ingestion	Harmful if swallowed. May be fatal
Health effects: Inhalation	Mist/vapours at elevated temperatures may cause irritation in respiratory system.

### 4. FIRST-AID MEASURES

Product in eyes	Remove any contact lenses from the eyes before rinsing thoroughly with plenty of water (lift eye lids). Rinse for at least 15 minutes. Seek medical attention if any discomfort continues
Product on skin	Wash skin with soap and water – do not use solvents! Seek medical attention if irritation persists
Product ingested	Never make an unconscious person vomit or drink fluids. Get the affected person to drink a lot of water in small gulps. Do not induce vomiting. Seek medical attention if discomfort continues
Product inhaled	Move to fresh air in case of accidental inhalation of vapours or decomposition products

### 5. FIRE-FIGHTING MEASURES

Extinguishing media	Water, dry chemical powder, foam, carbon dioxide or sand
Special hazards	In case of fire, hazardous combustion-gases are formed – CO. Toxic vapours are also released. Under certain conditions of combustion traces of other toxic substances cannot be excluded
Protective clothing	In case of fire, wear respiratory protection

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Surface may be slippery
Environmental precautions	Avoid contamination of ground and water surfaces
Small spills	If recovery is not feasible, absorb with dry sand, soil or non-reactive absorbent material or coagulate by sprinkling sodium chloride over the spill. Place in a container suitable for disposal
Large spills	Stop leak if without risk. Ventilate area. Prevent entry into drains or sewers. Clean as per small spills

## 7. HANDLING AND STORAGE

Suitable material	Steel container lined with polyethylene or polypropylene, polyethylene, PVC containers
Storage precautions	Keep product in a sealed container at temperatures between 5 and 30°C. Minimize contact with atmosphere to prevent contamination with micro-organisms

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limits	None
Engineering controls	Provide good ventilation when handling large quantities. No special measures are required if stored and handled as above
Respiratory Protection	Not required under normal conditions of use in a well-ventilated space
Hand Protection	Rubber gloves should be used if there is a risk of direct contact onto skin
Eye Protection	Safety glasses
Skin Protection	Observe the usual precautions when handling chemicals. Remove soiled or soaked clothing immediately
Other Protection	Wash hands at the end of each work shift and before eating

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## 9. PHYSICAL PROPERTIES

- Appearance Honey coloured viscous liquid
  - Odour Mild aromatic odour
  - Flash point Approx >200°C
  - Density (g/cm<sup>3</sup> @ 20°C) Approx 1.15
  - Solubility water Soluble
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## 10. STABILITY AND REACTIVITY

Conditions to avoid	Exposed air will form dry polymer skins. Avoid temperature extremes: < 5°C and above 30°C
Incompatible materials	Organic solvents, strong acids, strong alkalis, salts, oxidising agents, amines
Hazardous decomposition products	In case of fire, dense black smoke is formed. Carbon Monoxide, Nitrogen oxides, vapours of isocyanate and traces of cyanic acid may be formed

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## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	LD50 Oral Rat 15000mg/kg 4,4'-methylenediphenyldiisocyanate LD50 Oral Rat 4700mg/kg
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## 12. ECOLOGICAL INFORMATION

This product has not been tested for environmental effects. Based on its components, this product is unlikely to result in any detrimental ecological effects

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## 13. DISPOSABLE CONSIDERATIONS

Disposal methods	Whatever cannot be saved for recovery/recycling should be handled according to current local waste disposal legislation. Do not allow to enter drains or sewers. Do not allow to enter any body of water
Disposal of packaging	Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse or disposed of in approved facility in accordance with current local legislation

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#### 14. TRANSPORT REGULATIONS

UN no	Not regulated
Substance identity no.	Not regulated
<b>Road / rail transport</b> ADR / RID	Not regulated
<b>Marine Transport</b> IMDG	Not regulated
<b>Inland waterways</b> ADNR	Not regulated
<b>Air transport</b> IATA	Not regulated

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#### 15. REGULATORY INFORMATION

EEC hazard classification	202-966-0
Risk phrases	R20, R36/37/38, R42/43
Safety phrases	S23, S26, S36/37, S45, S51
National legislation	Not regulated

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#### 16. OTHER INFORMATION

For intended use and applications see the Technical Data Sheet for the product. The information provided in this Material Safety Data Sheet is based on the present state of our knowledge. This data is intended to enable safety assessments to be made and should not be construed as guaranteeing specific properties. Recipients of our product must take responsibility for observing existing laws and regulations

Risk Phrases	R20/21	Harmful by inhalation and in contact with skin
	R36	Irritating to eyes
	R38	Irritating to skin
Safety Phrases	S24	Avoid contact with skin
	S29/56	Do not empty into drains, dispose of this material and it's container at hazardous or special waste collection point
	S46	If swallowed, seek medical advice immediately and show this container or label
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S51	Use only in well-ventilated areas