

MATERIAL SAFETY DATA SHEET

According to EU Directive 93/112/EC

PU ADHESIVE

Version: 2

Print date: 25.1.05



1. Identification of Substance/Preparation and Company

Product Name	PU Adhesive
Company	Biokil Crown Ltd 7 Stadium Ind Park, Long Eaton Nottingham, NG10 2DD
Telephone	0115 946 0060
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Emergency Telephone	07967 10 71 95

2. Composition / Information on ingredients

Hazardous ingredients: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE 10-30%
EINECS: 202-966-0 CAS: 101-68-8
[Xn] R20; [Xi] R36/37/38; [Sens.] R42/43

3. Hazards identification

Main hazards: Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

4. First aid measures (Symptoms)

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Onset of symptoms may be delayed

4. First aid measures (Action)

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. Fire fighting measures

Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
Exposure hazards:	In combustion emits toxic fumes.
Protection of fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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6. Accidental release measures

Personal precautions:	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
Environmental precautions:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up procedures:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. To avoid build up of pressure due to the evolution of carbon dioxide, do not seal containers until fully reacted.

7. Handling and storage

Handling requirements:	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
Storage conditions:	Store in cool, well ventilated area. Keep container tightly closed.

8. Exposure controls / personal protection

Occupational exposure limits	
TWA (8 hr exposure limit):	0.02 mg/m ³ (MEL)
STEL (15 min exposure limit):	0.07 mg/m ³ (MEL)
Hazardous ingredients:	DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
TWA (8 hr exposure limit):	0.02 mg/m ³ STEL (15 min exposure limit): 0.07 mg/m ³ (OES)
Engineering measures:	Ensure there is sufficient ventilation of the area.
Respiratory protection:	If exposure levels are likely to be exceeded, use a face mask fitted with an AXP3 filter for short term low level exposures, or for long term/ high level exposures a positive pressure air fed mask should be used.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses. Ensure eye bath is to hand.
Skin protection:	Impermeable protective clothing.

9. Physical and chemical properties

State:	Liquid
Colour:	Brown
Odour:	Characteristic odour
Evaporation rate:	Slow
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Reacts with water.
Viscosity:	Viscous
Relative density:	1.1

10. Stability and reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Heat. Moist air. Humidity.
Materials to avoid:	Strong oxidising agents. Strong acids.
Haz. decomp. products:	In combustion emits toxic fumes.

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**11. Toxicological information**

Hazardous ingredients: DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
ORL MUS LD50 2200 mg/kg
ORL RAT LD50 9200 mg/kg
Chronic toxicity: May cause sensitisation by skin contact.
Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. Ecological information

Mobility: Non-volatile.
Persistence and degradability: Not biodegradable.
Bioaccumulative potential: No data available.

13. Disposal considerations

Disposal operations: Arrange for disposal by a licenced waste disposal company
Disposal of packaging: Arrange for disposal by a licenced waste disposal company
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

ADR / RID

UN no: -

Shipping name: "NOT SUBJECT TO ADR"

IMDG / IMO

UN no: -

IATA / ICAO

UN no: -

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**15. Regulatory information**

Hazard symbols: Harmful.

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

Safety phrases: S2: Keep out of the reach of children.
S23: Do not breathe vapour.
S51: Use only in well-ventilated areas.
S24/25: Avoid contact with skin and eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37: Wear suitable gloves.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.
S29/35: Do not empty into drains; dispose of this material and its container in a safe way.

Precautionary phrases: Contains isocyanates. See information supplied by the manufacturer.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other Information

Risk phrases used in s.2: R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R42/43: May cause sensitisation by inhalation and skin contact.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.