

6. ACCIDENTAL RELEASE MEASURES

6.1 Fire hazard	Extinguish naked flames and avoid sparks. Do not smoke.
6.2 Personal Protection	Avoid contact with skin and eyes and avoid breathing the vapours. Wear goggles, chemical resistant gloves and respiratory protection where there is a risk of exposure to high vapour concentrations.
6.3 Environmental Precautions	Prevent material entering sewers. Use appropriate container.
6.4 Clean-up of Spillages	Absorb liquid in sand or earth and then remove to competent authority. Wash clothing and equipment after handling.

7. HANDLING AND STORAGE

7.1 Precautions during Handling	Observe very strict hygiene. Do not discharge waste into drains/sewers. Clean contaminated clothing.
7.2 Precautions during Storage	Keep container tightly closed. Store in a cool, dry place. Temperatures in storage areas should not exceed 25 °C.
7.3 Packaging Materials	Aluminium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Exposure Limits**

Xylene, Mixture of isomers.

TLV-TWA	-	mg/m ³	100	ppm
TLV-STEL	-	mg/m ³	150	ppm
TLV-Ceiling	-	mg/m ³	-	ppm
OES-LTEL	441	mg/m ³	100	ppm
OES-STEL	662	mg/m ³	150	ppm
MEL-LTEL	-	mg/m ³	-	ppm
MEL-STEL	-	mg/m ³	-	ppm
MAK	440	mg/m ³	100	ppm
TRK	-	mg/m ³	-	ppm
MAC-TGG 8hour	210	mg/m ³	-	ppm
MAC-TGG 15min	-	mg/m ³	-	ppm
MAC-Ceiling	-	mg/m ³	-	ppm
VME-8hour	435	mg/m ³	100	ppm
VME-15min	650	mg/m ³	150	ppm
GWBB-8hour	440	mg/m ³	100	ppm
GWK-15min	660	mg/m ³	150	ppm
Momentary value	-	mg/m ³	-	ppm
EC	221	mg/m ³	50	ppm
EC-STEL	442	mg/m ³	100	ppm

8.2 Ventilation	Ensure good ventilation by means of extraction (local exhaust ventilation) at point of use where necessary.
8.3 Personal Protective Equipment	
Respiratory	Wear respiratory equipment where there is a risk of exposure to high vapour concentrations, i.e. above OES.
Hand	Wear chemical resistant gloves.
Eye	Wear safety goggles.
Skin	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance	Liquid, viscous.
9.2 Odour	Solvent.
9.3 pH	N.D.
9.4 Boiling Point	N.D. (Xylene)
9.5 Melting Point	N.D.
9.6 Flash Point	25°C
9.7 Flammability	Flammable
9.12 Vapour pressure at 20 ⁰ C KPa	0.93 Xylene
9.13 Relative Density at 20 ⁰ C	> 1
9.14 Solubility	(i) Water - insoluble. (ii) Fat - soluble in hydrocarbons, ketones and esters.

10. STABILITY AND REACTIVITY

10.1 Stable under normal conditions, cures on contact with moisture.

11. TOXICOLOGICAL INFORMATION

11.1 LD50 oral (Rats)	Xylene	4300 mg/kg
	Diphenylmethane	9200 mg/kg
11.4 Effects of Exposure		
(i) Eyes	May cause conjunctive irritation.	
(ii) Skin	Mild irritant.	
(iii) Inhalation	Irritation of the respiratory tract. Headache, nausea, dizziness, Narcosis.	

(iv) Ingestion Low acute toxicity, may cause gastro intestinal irritation.

12. ECOLOGICAL INFORMATION

12.1 Mobility	Volatile organic compounds (VOC): 10-13% Insoluble in water.	
12.2 Persistence and Degradability	Not known	
12.3 Bioaccumulation	Not known	
12.4 Aquatic toxicity - Soil	LC50 (96h)	3.77mg/l (salmo gairdneri / oncorhynchus mykiss)
	LC50 (48h)	3.82mg/l (daphnia magna)
	EC50 (336h)	72mg/l (selenastrum capricornutum)

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal	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. Dried material is non-hazardous.
13.2 Disposal methods	Landfill or incinerate at an approved site in accordance with national and local regulations.
13.3 Packaging	Waste material code packaging (91/689/EEC, council decision 2001/118/EC, O.J. L47 of 16/02/2001) 15 01 10 (Packaging containing residues of or contaminated by dangerous substances).

14. TRANSPORT INFORMATION

14.1 UN No.	UN1993, Flammable liquid (contains Xylene).
14.2 Transport by road/rail	Class 3, 31c
Danger code	30
Danger labels on tanks	3
14.3 Maritime transport (IMDG code)	Class 3 p. 3345 (1998 edit).
EMS	3-07
MFAG	4.2 (1998 edit).
14.4 Air freight (ICAO)	Class 3
instruction "passenger"	309/Y309
instruction "cargo"	310

15. REGULATORY INFORMATION

15.1 CHIP Regulation 9
Label for supply



HARMFUL

15.2 Contains

diphenylmethane-4,4'-di-isocyanate

15.3 CHIP Risk Phrases	R10 Flammable. R42 May cause sensitisation by inhalation.
15.4 CHIP Safety Phrases	S02 Keep out of the reach of children. S23 Do not breathe vapour S45 In case of accident or if feeling unwell, seek medical attention showing the label if possible.
15.5 Regulatory References	CHIP Regulations 1990, Health and Safety at Work Act 1974, COSHH Regulations 1988.

16. OTHER INFORMATION

16.1 User Notes	This adhesive should be used in accordance with the suppliers recommendations.
16.2 Information Sources	CHIP Approved Supply List CHIP Approved Guide to the Classification and Labelling of Substances and Preparations dangerous for supply. CHIP Approved Carriage List RAW Material Suppliers Literature Occupation Exposure Limits 1994 (EH4O)
16.3 Exposure Limits	Threshold limit value (ACGIH US 1999) Occupational exposure limit (UK 1999) Maximum exposure limit (UK 1999) Maximale arbeitplatzkonzentrationen (Germany 2000) Technische richtkonzentrationen (Germany 2000) Maximale aanvaarde concentratie (The Netherlands 2000) Valeurs limites de moyenne d'exposition (France 1999) Valeurs limites d'exposition a court terms (France 1999) Grenswaarde borocasmatic blootstelling (Belgium 1996) Grenswaarde kortstondige blootstelling (Belgium 1998)
TLV	
OES	
MEL	
MAK	
TRK	
MAC	
VME	
VLE	
GWBB	
GWK	