

- 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	Distinctive.
9.3 pH	N.D.
9.4 Boiling Point	N.D. (Xylene)
9.5 Melting Point	N.D.
9.6 Flash Point	25°C (Xylene)
9.7 Flammability	Flammable (Constituent part – Xylene)
9.12 Vapour pressure at 20°C KPa	0.93 (Xylene)
9.13 Relative Density at 20°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.
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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 (EH40)

16.3 Exposure Limits
 TLV Threshold limit value (ACGIH US 1999)
 OES Occupational exposure limit (UK 1999)
 MEL Maximum exposure limit (UK 1999)
 MAK Maximale arbeitplatzkonzentrationen (Germany 2000)
 TRK Technische richtkonzentrationen (Germany 2000)
 MAC Maximale aanvaarde concentratie (The Netherlands 2000)
 VME Valeurs limites de moyenne d'exposition (France 1999)
 VLE Valeurs limites d'exposition a court terms (France 1999)
 GWBB Grenswaarde borocasmatic blootstelling (Belgium 1996)
 GWK Grenswaarde kortstondige blootstelling (Belgium 1998)