

SAFETY DATA SHEET
POLYETHER URETHANE PART B

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME POLYETHER URETHANE PART B
PRODUCT NO. EMC-69T-B
APPLICATION Resin
SUPPLIER PDM NEPTEC LTD
4-6 ALTON BUSINESS CENTRE
OMEGA PARK
ALTON
HAMPSHIRE
GU34 2YU
+44 (0) 1420 85848
CONTACT PERSON MIKE FELLOWS

2 HAZARDS IDENTIFICATION

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

May cause sensitisation by inhalation and skin contact.

CLASSIFICATION Xn;R20. R42/43. Xi;R36/37/38.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|--------------------------------|-----------|------------|---------|----------------------------|
| METHYLENEDIPHENYL DIISOCYANATE | 247-714-0 | 26447-40-5 | 60-80% | Xn;R20 R42/43 Xi;R36/37/38 |

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Ventilate well. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

POLYETHER URETHANE PART B**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Persons susceptible for allergic reactions should not handle this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|--------------------------------|-----|-------------|--------------------|---------------|--------------------|-------|
| METHYLENEDIPHENYL DIISOCYANATE | WEL | | 0.02 mg/m3(Sen) | | 0.07 mg/m3(Sen) | |

WEL = Workplace Exposure Limit.

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet.

Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------------|----------------|-------------------------|-----------------------|
| APPEARANCE | Viscous | RELATIVE DENSITY | 1.24 @ 20 C |
| COLOUR | Amber | FLASH POINT (°C) | >200 CC (Closed cup). |
| ODOUR | Aromatic. | | |
| MELTING POINT (°C) | <0 | | |
| VISCOSITY | 20 mPas @ 25 C | | |
| AUTO IGNITION TEMPERATURE (°C) | >530 | | |

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

No incompatible groups noted.

HAZARDOUS DECOMPOSITION PRODUCTS

High temperatures generate: Irritating gases/vapours/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO).

POLYETHER URETHANE PART B

11 TOXICOLOGICAL INFORMATION

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

Irritating to skin. May cause skin irritation/eczema

EYE CONTACT

Irritating to eyes.

HEALTH WARNINGS

No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

Other Health Effects

This substance has no evidence of carcinogenic properties.

| | |
|-----------------------------|--------------------------------|
| Name | METHYLENEDIPHENYL DIISOCYANATE |
| Toxic Dose 1 - LD 50 | 5000 mg/kg (oral rat) |
| Toxic Dose 2 - LD 50 | 5000 mg/kg (ipr-rat) |
| Toxic Conc. - LC 50 | 370 mg/l/4h (inh-rat) |

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

| | |
|-------------------------------------|--------------------------------|
| Name | METHYLENEDIPHENYL DIISOCYANATE |
| LC 50, 96 Hrs, FISH mg/l | 100 |
| EC 50, 48 Hrs, DAPHNIA, mg/l | 100 |

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

| | | | |
|-----------------------------|-------------------------------------|-------------------------|-----|
| | No transport warning sign required. | | |
| ROAD TRANSPORT NOTES | Not Classified | | |
| RAIL TRANSPORT NOTES | Not Classified. | | |
| SEA TRANSPORT NOTES | Not Classified. | | |
| AIR TRANSPORT NOTES | Not Classified. | | |
| ADR CLASS | Not classified for transportation. | MARINE POLLUTANT | No. |

15 REGULATORY INFORMATION

SYMBOLS



Harmful

CONTAINS

METHYLENEDIPHENYL DIISOCYANATE

RISK PHRASES

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

SAFETY PHRASES

| | |
|----|---|
| P4 | Contains isocyanates. See information supplied by the manufacturer. |
|----|---|

POLYETHER URETHANE PART B

| | |
|--------|---|
| S37 | Wear suitable gloves. |
| S38 | In case of insufficient ventilation, wear suitable respiratory equipment. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |
| S24/25 | Avoid contact with skin and eyes. |

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988.

Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION**REVISION COMMENTS**

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE SEPTEMBER 2008

REV. NO./REPL. SDS 4

GENERATED

SDS NO. 10881

RISK PHRASES IN FULL

| | |
|-----------|---|
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DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.