

Ident-No: RENPIM 5222 POLYOL

Version 5
Revision Date 21.03.2009

Print Date 12.04.2009

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

Product information

Trade name : RENPIM 5222 POLYOL

Use : Polyol component for tooling systems

Company : Huntsman Advanced Materials (Europe)BVBA
Everslaan 45
3078 Everberg / Belgium

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Telefax : +41619661589

Emergency telephone number : +32 35 751 234 (in France ORFILA : +33(0)145425959)

For further Product EHS related questions concerning this document or its contents, please contact:
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2. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.
Harmful: danger of serious damage to health by prolonged exposure if swallowed.
May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Modified aromatic amine
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrased(s)	Concentration [%]
6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine EC-No.: 403-240-8	106264-79-3	Xn, N	R22 R43 R50/53	20.00 - 35.00
diethyltoluenediamine EC-No.: 270-877-4	68479-98-1	Xn, N	R21/22 R36 R48/22 R50/53	20.00 - 35.00
Carbon black EC-No.: 215-609-9	1333-86-4			1.00 - 5.00

4. FIRST AID MEASURES

Inhalation : Move to fresh air.
Call a physician immediately.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
If eye irritation persists, consult a specialist.

Ident-No: RENPIM 5222 POLYOL

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- | | | |
|--------------|---|---|
| Skin contact | : | Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician. |
| Ingestion | : | Do not induce vomiting.
Immediately give plenty of water (if possible charcoal slurry).
Obtain medical attention. |

5. FIRE-FIGHTING MEASURES

- | | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray.
Dry powder.
Carbon dioxide (CO ₂).
Foam. |
| Extinguishing media which must not be used for safety reasons | : | High volume water jet. |
| Specific hazards during fire fighting | : | Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus and protective suit. |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|---|
| Personal precautions | : | Do not breathe vapours/dust.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation. |
| Environmental precautions | : | Do not allow material to contaminate ground water system. |
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). |

7. HANDLING AND STORAGE

Handling

- | | | |
|-------------------------|---|---|
| Advice on safe handling | : | Provide sufficient air exchange and/or exhaust in work rooms.
Handle and open container with care. |
|-------------------------|---|---|

Storage

- | | | |
|--|---|--|
| Further information on storage conditions | : | Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Keep at temperatures between 2 and 40 °C. |
| Storage hazard class
Huntsman Advanced
Materials | : | Storage class 10, Environmentally hazardous liquids |

Ident-No: RENPIM 5222 POLYOL

Version 5
Revision Date 21.03.2009

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Carbon black	1333-86-4	3.5 mg/m3		GB-MEL I

Engineering measures

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Filter type AX-P2 (organic vapours, particles)
- Eye protection : Tightly fitting safety goggles.
Face-shield.
- Hand protection : Material of gloves for long term application (BTT>480 min):
Butyl rubber
Ethyl Vinyl Alcohol Laminate (EVAL)
Material of gloves for short term/splash application (10 min<BTT<480 min):
Nitrile rubber
Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US).
Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.
Additional information can be found for instance at www.gisbau.de
- Skin and body protection : long sleeved clothing
- Protective measures : Do not breathe vapours/dust.
Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : black
- Odour : amine-like
- Boiling point : > 200 °C
- Thermal decomposition : > 200 °C

Ident-No: RENPIM 5222 POLYOL

Version 5
Revision Date 21.03.2009

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Flash point	: > 140 °C Method: estimated
Vapour pressure	: < 1 Pa at 20 °C
Density	: 1.08 g/cm ³ at 20 °C
Water solubility	: at 20 °C Note: partly soluble
Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 1,500 mPa.s at 25 °C

10. STABILITY AND REACTIVITY

Conditions to avoid	: Note: Take necessary action to avoid static electricity discharge.
Materials to avoid	: Strong acids and strong bases. Strong oxidizing agents.
Hazardous decomposition products	: Carbon oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: < 2,000 mg/kg
Eye irritation	: Mild eye irritation rabbit
Skin irritation	: Mild skin irritation rabbit dermal
Sensitization	: Causes sensitization. guinea pig dermal

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability	: Result: Not readily biodegradable.
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Ident-No: RENPIM 5222 POLYOL

Version 5
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Ecotoxicity effects

Further information on ecology

Additional ecological information : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

13. DISPOSAL CONSIDERATIONS

Product : Waste Key Number: 070208
Must be incinerated, when in compliance with local regulations.

Container : Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORT INFORMATION

Land transport

ADR:

UN-No: 3082
Class: 9
Classification code: M6
Packaging group: III
Risk No.: 90
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: 6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1,3-DIAMINE
contains: DIETHYLTOLUENEDIAMINE

RID:

UN-No: 3082
Class: 9
Packaging group: III
Risk No.: 90
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: 6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1,3-DIAMINE
contains: DIETHYLTOLUENEDIAMINE

Sea transport

IMDG:

UN-No: 3082
Class: 9
Packaging group: III

Ident-No: RENPIM 5222 POLYOL

Version 5
Revision Date 21.03.2009

Print Date 12.04.2009

ADR/RID-Labels: 9
MFAG:
EmS: F-A S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
contains: (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1,3-DIAMINE)
contains: (DIETHYLTOLUENEDIAMINE)
MARINE POLLUTANT

Air transport

IATA-DGR:

UN/ID No.: UN 3082
Class: 9
Packaging group: III
Packing instruction (cargo aircraft): 914
Max. Qty/Pack.: 450.00 L
(999.00 = No limit)
Packing instruction (passenger aircraft): 914
Max. Qty/Pack.: 450.00 L
(999.00 = No limit)
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
contains: (6-METHYL-2,4-BIS-(METHYLTHIO)-PHENYLENE-1,3-DIAMINE)
contains: (DIETHYLTOLUENEDIAMINE)

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s):	: Xn N	Harmful Dangerous for the environment
R-phrase(s)	: R21/22 8960 R43 R50/53	Harmful in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S28 S36/37/39 S61	After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to

Ident-No: RENPIM 5222 POLYOL

Version 5
Revision Date 21.03.2009

Print Date 12.04.2009

special instructions/safety data sheets.

Hazardous components : 6-methyl-2,4-bis (methylthio) phenylene-1,3-diamine
which must be listed on the EC-No.: 403-240-8
label
diethyltoluenediamine
EC-No.: 270-877-4

National legislation

Notification status

: EINECS yes

: TSCA yes

: DSL yes

: AICS yes

: KECI (KR) yes

: ENCS (JP) no

16. OTHER INFORMATION

List of R-phrases (Section 3)

R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974. Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).
All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as

Ident-No: RENPIM 5222 POLYOL

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