

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

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

Product information

Trade name : RENPIM 5214 POLYOL

Use : Polyol component for tooling systems

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

Telephone : +41619661599

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:
E-Mail: global_product_ehs_admat@huntsman.com

2. HAZARDS IDENTIFICATION

Irritating to eyes and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Modified polyol
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
polyoxypropylene diamine (R52/53)	9046-10-0	C	R21/22 R34 R52/53	5.00 - 9.00
titanium dioxide EC-No.: 236-675-5	13463-67-7			1.00 - 5.00

4. FIRST AID MEASURES

Inhalation : Move to fresh air.
If symptoms persist, call a physician.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Call a physician immediately.

Skin contact : If skin irritation persists, call a physician.
Wash off with soap and plenty of water.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).
Obtain medical attention.
Do not induce vomiting.

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---------------------------|---|---|
| Personal precautions | : | Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.
Do not breathe vapours/dust. |
| Environmental precautions | : | Prevent product from entering drains.
Do not contaminate surface water.
Avoid subsoil penetration. |
| Methods for cleaning up | : | Soak up with inert absorbent material and dispose of as hazardous waste. |

7. HANDLING AND STORAGE

Handling

- | | | |
|-------------------------|---|---|
| Advice on safe handling | : | Provide sufficient air exchange and/or exhaust in work rooms.
Ensure adequate ventilation.
Handle and open container with care.
Keep away from sources of ignition - No smoking. |
|-------------------------|---|---|

Storage

- | | | |
|---|---|--|
| Further information on storage conditions | : | Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Keep at temperatures between 6 and 28 °C. |
|---|---|--|

- | | | |
|--|---|--|
| Storage hazard class
Huntsman Advanced
Materials | : | Storage class 12, Liquids, not dangerous |
|--|---|--|

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
titanium dioxide	13463-67-7	10 mg/m ³ 4 mg/m ³		GB-MEL I GB-MEL R

Engineering measures

No special precautions required.

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 : Protective suit.
Safety shoes.
- Protective measures : Keep away from sources of ignition - No smoking.
Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : white
- Odour : ammoniacal
- Boiling point : > 200 °C

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

Thermal decomposition	: > 200 °C
Flash point	: > 100 °C Method: estimated
Density	: 1.1 g/cm ³ at 25 °C
Water solubility	: at 20 °C Note: practically insoluble
Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 1,500 - 7,000 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. Nitrogen oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: > 2,000 mg/kg
Eye irritation	: irritating rabbit
Skin irritation	: irritating rabbit dermal
Sensitization	: No skin sensitization. guinea pig dermal

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

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: 070204
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:

Regulation: Not dangerous goods

RID:

Regulation: Not dangerous goods

Sea transport

IMDG:

Regulation: Not dangerous goods

Air transport

IATA-DGR:

Regulation: Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s): : Xi Irritant

R-phrases(s) : R36/38 Irritating to eyes and skin.

S-phrases(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

S28	medical advice. After contact with skin, wash immediately with plenty of soap and water.
S37/39	Wear suitable gloves and eye/face protection.

Hazardous components : polyoxypropylene diamine (R52/53)
which must be listed on the
label

National legislation

Notification status

: EINECS yes

: TSCA no

: 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.
R34	Causes burns.
R52/53	Harmful to aquatic organisms, may cause long-term adverse 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 conditions of use lie outside our control. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in

Ident-No: RENPIM 5214 POLYOL

Version 3
Revision Date 22.03.2009

Print Date 09.04.2009

any contract unless expressly agreed in writing nor construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Huntsman Advanced Materials General Conditions of Sale.