

**Ident-No: RENPIM 5215 POLYOL**

Version 3  
Revision Date 20.03.2009

Print Date 09.04.2009

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

### Product information

Trade name : RENPIM 5215 POLYOL

Use : Polyol component for tooling systems

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

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## 2. HAZARDS IDENTIFICATION

Causes burns.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

Modified polyol  
preparation

### Hazardous components

Chemical Name	CAS-No.	Symbol(s)	R-phrases	Concentration [%]
polyoxypropylene diamine (R52/53)	9046-10-0	C	R21/22 R34 R52/53	10.00 - 15.00

## 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.

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## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.  
Carbon dioxide (CO<sub>2</sub>).  
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 18 and 40°C.
- Storage hazard class : Storage class 8, Corrosive substances  
Huntsman Advanced Materials

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
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### 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](http://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 : > 260 °C
- Thermal decomposition : > 250 °C
- Flash point : 100 °C

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Method: estimated

Density : 1.1 g/cm<sup>3</sup>  
at 25 °C

Water solubility : at 20 °C  
Note: insoluble

Miscibility with water : immiscible  
at 20 °C

Viscosity, dynamic : 1,100 - 1,500 mPa.s  
at 20 °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 : Corrosive  
rabbit

Skin irritation : Corrosive  
rabbit  
dermal

Sensitization : No skin sensitization.  
guinea pig  
dermal

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

### Further information on ecology

Additional ecological information : Avoid subsoil penetration.  
Prevent product from entering drains.

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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:*

UN-No: 3267  
Class: 8  
Classification code: C7  
Packaging group: III  
Risk No.: 80  
ADR/RID-Labels: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: POLYOXYALKYLENE AMINE

*RID:*

UN-No: 3267  
Class: 8  
Packaging group: III  
Risk No.: 80  
ADR/RID-Labels: 8  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: POLYOXYALKYLENE AMINE

#### Sea transport

*IMDG:*

UN-No: 3267  
Class: 8  
Packaging group: III  
ADR/RID-Labels: 8  
MFAG:  
EmS: F-A S-B  
Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
contains: (POLYOXYALKYLENE AMINE)

#### Air transport

*IATA-DGR:*

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UN/ID No.:	UN 3267
Class:	8
Packaging group:	III
Packing instruction (cargo aircraft):	820
Max. Qty/Pack.: ( 999.00 = No limit )	60.00 L
Packing instruction (passenger aircraft):	818
Max. Qty/Pack.: ( 999.00 = No limit )	5.00 L
ADR/RID-Labels:	8
Proper shipping name: contains:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (POLYOXYALKYLENE AMINE)

## 15. REGULATORY INFORMATION

### Labelling according to EEC Directive

Labelling required

Symbol(s):	: C	Corrosive
R-phrase(s)	: R34	Causes burns.
S-phrase(s)	: S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Hazardous components which must be listed on the label	: polyoxypropylene diamine	

### National legislation

### Notification status

: EINECS yes

: TSCA yes

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: DSL yes

: KECI (KR) yes

: JEX (JP) yes

## 16. OTHER INFORMATION

### List of R-phrases (Section 2)

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 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.