

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

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

Product information

Trade name : REN HV 36

Use : Hardener 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.
May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Aliphatic and cycloaliphatic polyamine
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
polypropylene glycol	25322-69-4	Xn	R22	5.00 - 20.00
barium sulphate, natural EC-No.: 231-784-4	7727-43-7			5.00 - 15.00
trimethylhexamethylenediamine EC-No.: 247-134-8	25620-58-0	C	R22 R34 R43 R52/53	1.00 - 10.00
benzyl alcohol EC-No.: 202-859-9	100-51-6	Xn	R20/22	1.00 - 5.00
aziridine, homopolymer	9002-98-6	N, Xn	R22 R51/53	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.
Call a physician immediately.

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

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

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.
Carbon dioxide (CO₂).
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 : Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides.

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 : corrosive
sensitizing
Keep away from sources of ignition - No smoking.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Handle and open container with care.

Storage

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

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 : Storage class 12, Liquids, not dangerous
Huntsman Advanced Materials

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
barium sulphate, natural	7727-43-7	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.

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : paste

Colour : brown

Odour : amine-like

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

Flash point	: > 200 °C Method: estimated
Density	: 0.68 g/cm ³ at 20 °C
Water solubility	: at 20 °C Note: insoluble
Miscibility with water	: immiscible 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	: Irritant rabbit Method: Data based on tests on similar product.
Skin irritation	: Irritant rabbit Method: Data based on tests on similar product. dermal
Sensitization	: Causes sensitization. guinea pig Method: Data based on tests on similar product. dermal

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Further information on ecology

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

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-phrase(s) : R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.

S-phrase(s) : S28 After contact with skin, wash immediately
with plenty of soap and water.
S37/39 Wear suitable gloves and eye/face

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

protection.

Hazardous components : trimethylhexamethylenediamine
which must be listed on the EC-No.: 247-134-8
label

National legislation

Notification status

: EINECS yes

: TSCA yes

: DSL no

: AICS no

: KECI (KR) yes

: JEX (JP) no

16. OTHER INFORMATION

List of R-phrases (Section 3)

R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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

Ident-No: REN HV 36

Version 6
Revision Date 20.03.2009

Print Date 11.04.2009

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.