

Ident-No: XW 397 HARDENER

Version 6
Revision Date 28.01.2004

Print Date 28.02.2004

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

Product information

Trade name : XW 397 HARDENER

Use : Hardener for adhesive systems

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

Telephone : +41619661599
Telefax : +41619661589
Emergency telephone number : +41 61 966 40 00 (in France ORFILA : +33(0)145425959)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Formulated polyamine preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
isophorone diamine EC-No.: 220-666-8	2855-13-2	C	R21/22 R34 R43 R52/53	39.00 - 51.00
trimethylhexamethylenediamine EC-No.: 247-134-8	25620-58-0	C	R22 R34 R43 R52/53	14.00 - 20.00

3. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.
Causes burns.
May cause sensitization by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 : 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.

Ident-No: XW 397 HARDENER

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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

- Environmental precautions : Do not allow material to contaminate ground water system.
Prevent product from entering drains.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal.

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.

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 : Storage class 8, Corrosive substances
Huntsman Advanced Materials

Ident-No: XW 397 HARDENER

Version 6
Revision Date 28.01.2004

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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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Personal protective equipment

- Eye protection : Tightly fitting safety goggles.
Face-shield.
- Hand protection : rubber or plastic gloves
- 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 : clear
- Odour : strong
- Thermal decomposition : > 200 °C
- Flash point : > 120 °C
Method: DIN 51758 (Pensky-Martens Closed Cup)
- Density : 0.95 g/cm³
at 25 °C
- Water solubility : at 20 °C
Note: soluble
- Miscibility with water : immiscible
at 20 °C
- Viscosity, dynamic : 150 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.

Ident-No: XW 397 HARDENER

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Hazardous decomposition products : Carbon oxides.
Nitrogen oxides. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: approx. 950 mg/kg

Eye irritation : Corrosive
rabbit

Skin irritation : Corrosive
rabbit
dermal

Sensitization : Causes sensitization.
guinea pig
dermal

12. ECOLOGICAL INFORMATION

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: 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: 2289
Class: 8
Classification code: C7

Ident-No: XW 397 HARDENER

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Packaging group: III
Risk No.: 80
ADR/RID-Labels: 8
Proper shipping name: ISOPHORONEDIAMINE SOLUTION

RID:

UN-No: 2289
Class: 8
Packaging group: III
Risk No.: 80
ADR/RID-Labels: 8
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Sea transport

IMDG:

UN-No: 2289
Class: 8
Packaging group: III
ADR/RID-Labels: 8
MFAG:
EmS: F-A S-B
Proper shipping name: ISOPHORONEDIAMINE SOLUTION

Air transport

IATA-DGR:

UN/ID No.: UN 2289
Class: 8
Packaging group: III
Packing instruction (cargo aircraft): 820
Max. Qty/Pack.: 60.00 L
(999.00 = No limit)
Packing instruction (passenger aircraft): 818
Max. Qty/Pack.: 5.00 L
(999.00 = No limit)
ADR/RID-Labels: 8
Proper shipping name: ISOPHORONEDIAMINE SOLUTION

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s): : C Corrosive

R-phrase(s) : R21/22 Harmful in contact with skin and if
swallowed.
R34 Causes burns.

Ident-No: XW 397 HARDENER

Version 6
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	R43 R52/53	May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S26 S36/37/39 S45 S61	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Avoid release to the environment. Refer to special instructions/Safety data sheets.
Hazardous components which must be listed on the label	: isophorone diamine EC-No.: 220-666-8	

National legislation

Notification status

: EINECS yes

: TSCA yes

16. OTHER INFORMATION

List of R-phrases (Section 2)

R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
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

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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.