

Ident-No: XH 180 B CI

Version 1
Revision Date 21.03.2009

Print Date 13.04.2009

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

Product information

Trade name : XH 180 B CI

Use : Component for civil engineering applications

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

Causes burns.
May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Formulated polyamine preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
polyoxypropylene diamine	9046-10-0	C	R34	70.00 - 85.00
benzyl alcohol EC-No.: 202-859-9	100-51-6	Xn	R20/22	1.00 - 10.00
diethylenetriamine EC-No.: 203-865-4	111-40-0	C	R21/22 R34 R43	1.00 - 10.00
4,4'-isopropylidenediphenol EC-No.: 201-245-8	80-05-7	Xn	R37 R41 R43 R62	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.

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

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Ingestion : Immediately give plenty of water (if possible charcoal slurry).
Do not induce vomiting.
Call a physician immediately.

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 : Avoid formation of aerosol.
Ensure adequate ventilation.
Handle and open container with care.
Keep away from sources of ignition - No smoking.
Purge open drums with nitrogen before resealing.

Storage

Further information on storage conditions : Keep away from food, drink and animal feeding stuffs.
Keep container tightly closed.
Store in original container.
Keep at temperatures between 2 and 40 °C.

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Storage hazard class : Storage class 8, Corrosive substances
Huntsman Advanced
Materials

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
- Skin and body protection : Protective suit.
Safety shoes.
- Hygiene measures : Take off immediately all contaminated 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 : clear
light yellow

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Odour	: amine-like
Boiling point	: > 200 °C
Thermal decomposition	: > 200 °C
Flash point	: > 120 °C Method: DIN 51758 (Pensky-Martens Closed Cup)
Vapour pressure	: < 100 Pa at 20 °C
Density	: 0.98 g/cm ³ at 20 °C
Water solubility	: at 20 °C Note: partly soluble
Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 50 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	: Nitrogen oxides. Burning produces obnoxious and toxic fumes. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

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

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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: 2735
Class: 8
Classification code: C7
Packaging group: II
Risk No.: 80
ADR/RID-Labels: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
contains: POLYOXYALKYLENE AMINE

RID:

UN-No: 2735
Class: 8
Packaging group: II
Risk No.: 80
ADR/RID-Labels: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
contains: POLYOXYALKYLENE AMINE
contains: DIETHYLENE TRIAMINE

Sea transport

IMDG:

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Class: 8
Packaging group: II
ADR/RID-Labels: 8
MFAG:
EmS: F-A S-B
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
contains: (POLYOXYALKYLENE AMINE)

Air transport

IATA-DGR:

UN/ID No.: UN 2735
Class: 8
Packaging group: II
Packing instruction (cargo aircraft): 812
Max. Qty/Pack.: 30.00 L
(999.00 = No limit)
Packing instruction (passenger aircraft): 808
Max. Qty/Pack.: 1.00 L
(999.00 = No limit)
ADR/RID-Labels: 8
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
contains: (POLYOXYALKYLENE AMINE)

15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s): : C Corrosive

R-phrase(s) : R34 Causes burns.
R43 May cause sensitization by skin contact.

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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
diethylenetriamine
EC-No.: 203-865-4

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4,4'-isopropylidenediphenol
EC-No.: 201-245-8

National legislation

Notification status

- : EINECS yes
- : TSCA yes
- : DSL yes
- : AICS yes
- : KECI (KR) yes
- : INV (CN) yes

16. OTHER INFORMATION

List of R-phrases (Section 3)

R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R62	Possible risk of impaired fertility.

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).

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