

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

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

Product information

Trade name : XD 4369 HARDENER

Use : Hardener for adhesive 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.
Harmful by inhalation and if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Aliphatic amine adduct
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s)	R-phrases	Concentration [%]
benzyl alcohol EC-No.: 202-859-9	100-51-6	Xn	R20/22	25.00 - 37.00
2,4,6-tris(dimethylaminomethyl)phenol EC-No.: 202-013-9	90-72-2	Xn	R22 R36/38	10.00 - 15.00

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.
If eye irritation persists, consult a specialist.

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

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray.
Dry powder.
Carbon dioxide (CO₂).
Foam.

Extinguishing media which must not be used for safety reasons : High volume water jet.

Specific hazards during fire fighting : Burning produces obnoxious and toxic fumes.
Carbon oxides.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Do not breathe vapours/dust.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.

Environmental precautions : Do not allow material to contaminate ground water system.

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
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 12, Liquids, not dangerous
Huntsman Advanced
Materials

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
------------	---------	--------------------	--------	-------

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
Filter type AX-P2 (organic vapours, particles)
- Eye protection : 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
- Skin and body protection : long sleeved clothing
- Hygiene measures : Keep away from food, drink and animal feeding stuffs.
Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : light yellow
- Thermal decomposition : > 200 °C
- Flash point : > 100 °C
Method: DIN 51758 (Pensky-Martens Closed Cup)
- Water solubility : at 20 °C

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

Note: practically insoluble

Miscibility with water : immiscible
at 20 °C

Viscosity, dynamic : 500 - 800 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. Burning produces obnoxious and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: > 5,000 mg/kg

Eye irritation : irritating
rabbit

Skin irritation : irritating
rabbit
dermal

Sensitization : Causes sensitization on guinea-pigs.
guinea pig

Further information : Epoxy resins with an average molecular weight of less than 700 may cause sensitization.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Result: Not readily biodegradable.

Ecotoxicity effects

Further information on ecology

Additional ecological information : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

13. DISPOSAL CONSIDERATIONS

Product : Waste Key Number: 070208
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) : Xn Harmful

R-phrases : R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R20/22 Harmful by inhalation and if swallowed.

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

Ident-No: XD 4369 HARDENER

Version 3
Revision Date 22.03.2009

Print Date 08.05.2009

Hazardous components : benzyl alcohol
which must be listed on the label EC-No.: 202-859-9

National legislation

Notification status

: EINECS yes

: TSCA yes

16. OTHER INFORMATION

List of R-phrases (Section 3)

R20/22 Harmful by inhalation and if swallowed.
R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.

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.