according to applicable EC directive



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# Ident-No: XD 4501 ADHESIVE

Version 5 Print Date 10.04.2009

Revision Date 22.03.2009

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

#### **Product information**

Trade name : XD 4501 ADHESIVE

Use : 1-Component adhesive system

Company : Huntsman Advanced Materials (Europe)BVBA

Everslaan 45

3078 Everberg / Belgium

Telephone : +41619661599 Telefax : +41619661589

Emergency telephone : +32 35 751 234 (in France ORFILA : +33(0)145425959)

number

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.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical nature**

Bisphenol A epoxy resin containing reactive diluent preparation

#### **Hazardous components**

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
reaction product: bisphenol A-	25068-38-	Xi, N	R36/38 R43 R51/53	50.00 - 80.00
(epichlorhydrin); epoxy resin	6			
(number average molecular				
weight < 700)				
chlorotoluron	15545-48-	N, Xn	R50/53 R63 R40	3.00 - 9.00
EC-No.: 239-592-2	9			
butanedioldiglycidyl ether	2425-79-8	Xn	R20/21 R36/38 R43	1.00 - 5.00
EC-No.: 219-371-7			R52/53	

#### 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.

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: Wash off with soap and plenty of water. Skin contact

If skin irritation persists, call a physician.

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

High volume water jet.

reasons

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 8 ℃.

Storage hazard class Huntsman Advanced

Materials

Storage class 10, Environmentally hazardous liquids

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Control	Update	Basis
		parameters		

#### **Engineering measures**

Avoid formation of aerosol.

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

#### 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 Neoprene 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.

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 : paste

Colour : white

Odour : slight

Thermal decomposition : > 200 ℃

according to applicable EC directive



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: > 200 ℃ Flash point

Method: DIN 51758 (Pensky-Martens Closed Cup)

Water solubility : at 20 ℃

Note: soluble

Miscibility with water : miscible

at 20 ℃

Viscosity, dynamic : 60 - 140 Pa.s

at 25 ℃

# 10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Take necessary action to avoid static electricity

discharge.

: Strong acids and strong bases. Materials to avoid

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.

guinea pig

# 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

: Result: Not readily biodegradable. Biodegradability

#### **Ecotoxicity effects**

## Further information on ecology

Additional ecological : Avoid subsoil penetration.

information Prevent product from entering drains.

Do not contaminate surface water.

according to applicable EC directive



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## 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:

UN-No: 3082
Class: 9
Classification code: M6
Packaging group: III
Risk No.: 90
ADR/RID-Labels: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

contains: BISPHENOL A EPOXY RESIN

RID:

UN-No: 3082
Class: 9
Packaging group: III
Risk No.: 90
ADR/RID-Labels: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

contains: BISPHENOL A EPOXY RESIN

#### Sea transport

IMDG:

UN-No: 3082
Class: 9
Packaging group: III
ADR/RID-Labels: 9

MFAG:

EmS: F-A S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

contains: (BISPHENOL A EPOXY RESIN)

#### Air transport

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IATA-DGR:

UN/ID No.: UN 3082 Class: Packaging group: Ш Packing instruction (cargo 914

aircraft):

Max. Qty/Pack.: 450.00 L

(999.00 = No limit)

Packing instruction 914

(passenger aircraft):

Max. Qtv/Pack.: 450.00 L

(999.00 = No limit)

ADR/RID-Labels:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper shipping name:

N.O.S.

(BISPHENOL A EPOXY RESIN) contains:

# 15. REGULATORY INFORMATION

#### Labelling according to EEC Directive

Labelling required

Symbol(s): Χi Irritant

> Ν Dangerous for the environment

R-phrase(s) R36/38 Irritating to eyes and skin.

May cause sensitization by skin contact. R43 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S-phrase(s) S28 After contact with skin, wash immediately

with plenty of soap and water.

S37/39 Wear suitable gloves and eye/face

protection.

S61 Avoid release to the environment. Refer to

special instructions/safety data sheets.

Exceptional labelling of special preparations

Contains epoxy constituents. See information supplied by the

manufacturer.

Hazardous components which must be listed on the

label

reaction product: bisphenol A-(epichlorhydrin); epoxy resin

(number average molecular weight < 700)

butanedioldiglycidyl ether EC-No.: 219-371-7

chlorotoluron EC-No.: 239-592-2

#### **National legislation**

according to applicable EC directive



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**Notification status** 

: EINECS yes

: TSCA yes

#### **16. OTHER INFORMATION**

#### List of R-phrases (Section 3)

R20/21 Harmful by inhalation and in contact with skin.

R36/38 Irritating to eyes and skin.

R40 Limited evidence of a carcinogenic effect.
R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term effects in the

aquatic environment.

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.

R63 Possible risk of harm to the unborn child.

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.