

Ident-No: ARALDITE AW 106

Version 3
Revision Date 27.01.2004

Print Date 31.03.2004

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

Product information

Trade name : ARALDITE AW 106

Use : Resin for adhesive systems

Company : Huntsman Advanced Materials
(Hong Kong) Ltd
Suite 2303-2306
Tower 1, The Gateway
No. 25 Canton Road
Kowloon, Hong Kong

Telephone : +85221488800

Telefax : +85224871428

Emergency telephone number : (852) 9681 0383 (Local)/ +41 61 966 40 00 (Global)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Formulated bisphenol A epoxy resin preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases	Concentration [%]
reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	25068-38-6	Xi, N	R36/38 R43 R51/53	70.00 - 82.00
bisphenol F-epoxy resin	9003-36-5	Xi, N	R36/38 R43 R51/53	4.00 - 10.00

3. 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.

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.
If eye irritation persists, consult a specialist.

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.

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Obtain medical attention.

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : | Water spray.
Carbon dioxide (CO ₂).
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. |

6. ACCIDENTAL RELEASE MEASURES

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|---------------------------|---|--|
| 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 and dispose of as hazardous waste. |

7. HANDLING AND STORAGE

Handling

- | | | |
|-------------------------|---|--|
| Advice on safe handling | : | Provide sufficient air exchange and/or exhaust in work rooms.
Avoid formation of aerosol.
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
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 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	:	paste		
Colour	:	natural colour		
Odour	:	slight		
pH	:	approx.6 at (20 °C) 1:1 in water		
Boiling point	:	> 200 °C		
Thermal decomposition	:	> 200 °C		
Flash point	:	210 °C Method: DIN 51758 (Pensky-Martens Closed Cup)		
Vapour pressure	:	< 0.1 Pa at 20 °C		
Density	:	1.15 - 1.25 g/cm3 at 25 °C		
Water solubility	:	at 20 °C Note: practically insoluble		
Miscibility with water	:	immiscible at 20 °C		
Viscosity, dynamic	:	30 - 50 Pa.s at 25 °C		

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10. STABILITY AND REACTIVITY

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| 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 | : sensitizing
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. |
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13. DISPOSAL CONSIDERATIONS

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|------------------------|--|
| Product | : 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. |
| Contaminated packaging | : Waste Key Number: 305055 |

14. TRANSPORT INFORMATION

Land transport

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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

IATA-DGR:

UN/ID No.: UN 3082
Class: 9
Packaging group: III
Packing instruction (cargo aircraft): 914
Max. Qty/Pack.: 999.00 L
(999.00 = No limit)
Packing instruction (passenger aircraft): 914
Max. Qty/Pack.: 999.00 L
(999.00 = No limit)
ADR/RID-Labels: 9
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
contains: (BISPHENOL A EPOXY RESIN)

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15. REGULATORY INFORMATION

Labelling according to EEC Directive

Labelling required

Symbol(s):	: Xi N	Irritant Dangerous for the environment
R-phrases)	: R36/38 R43 R51/53	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.
S-phrases(s)	: S26 S28 S37/39 S61	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection. 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)	

National legislation

Water contaminating class	: 2 water endangering Classified according to annex 4 of the German VwVwS for preparations.
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Notification status

- : EINECS yes
- : TSCA yes
- : DSL yes

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: AICS yes

: KECI (KR) yes

: JEX (JP) yes

: CH_BAGT Notification number: 615084

: CH_GIFTKL Notification number: 4

16. OTHER INFORMATION

List of R-phrases (Section 2)

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.