

**Ident-No: ARALDITE BW 1193**

Version 3  
Revision Date 23.03.2009

Print Date 10.04.2009

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

### Product information

Trade name : ARALDITE BW 1193

Use : Component for civil engineering applications

Company : Huntsman Advanced Materials (Europe)BVBA  
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## 2. HAZARDS IDENTIFICATION

May cause harm to unborn child.  
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

Formulated epoxy resin containing reactive diluent and inert fillers 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	35.00 - 50.00
barium sulphate, natural EC-No.: 231-784-4	7727-43-7			15.00 - 30.00
1,6-hexanedioldiglycidyl ether EC-No.: 240-260-4	16096-31-4	Xi	R36/38 R43 R52/53	1.00 - 10.00
dibutyl phthalate EC-No.: 201-557-4	84-74-2	T, N	R61 R50 R62	1.00 - 3.00

## 4. FIRST AID MEASURES

Inhalation : Move to fresh air.  
Call a physician immediately.

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- Eye contact : Rinse immediately with plenty of water for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- Skin contact : Wash off immediately 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.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.  
Carbon dioxide (CO<sub>2</sub>).  
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

- Personal precautions : Keep away from sources of ignition - No smoking.  
Do not breathe vapours/dust.  
Avoid contact with skin, eyes and clothing.
- 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 : 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.

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Storage hazard class : Storage class 10, Environmentally hazardous liquids  
Huntsman Advanced  
Materials

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
barium sulphate, natural	7727-43-7	10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup>		GB-MEL I GB-MEL R
dibutyl phthalate	84-74-2	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>		GB-OES 8H GB-OES 15M

### Engineering measures

No special precautions required.

### Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.  
Filter type AX-P3 (organic vapours, particles)
- Eye protection : Tightly fitting safety 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  
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](http://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 : Keep away from sources of ignition - No smoking.  
Avoid contact with skin, eyes and clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: paste
Colour	: beige
Odour	: slight
Boiling point	: > 200 °C
Thermal decomposition	: > 200 °C
Flash point	: > 150 °C Method: estimated
Vapour pressure	: < 0.1 Pa at 20 °C
Density	: 1.45 g/cm <sup>3</sup> at 25 °C
Water solubility	: at 20 °C Note: insoluble
Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 2,000 - 3,000 Pa.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

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Sensitization : Causes sensitization.  
guinea pig  
dermal

## 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.

## 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.

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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.: 450.00 L  
( 999.00 = No limit )  
Packing instruction (passenger aircraft): 914  
Max. Qty/Pack.: 450.00 L  
( 999.00 = No limit )  
ADR/RID-Labels: 9  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
contains: (BISPHENOL A EPOXY RESIN)

**15. REGULATORY INFORMATION**

**Labelling according to EEC Directive**

Labelling required

Symbol(s):	: T N	Toxic Dangerous for the environment
R-phrase(s)	: R61 R36/38 R43 R51/53	May cause harm to unborn child. 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-phrase(s)	: S36/37/39	Wear suitable protective clothing, gloves

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- S45 and eye/face protection.  
In case of accident or if you feel unwell,  
seek medical advice immediately (show  
label where possible).
- S53 Avoid exposure - obtain special instructions  
before use.
- S61 Avoid release to the environment. Refer to  
special instructions/safety data sheets.

Exceptional labelling of special preparations : Restricted to professional users. 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)  
1,6-hexanedioldiglycidyl ether  
EC-No.: 240-260-4  
dibutyl phthalate  
EC-No.: 201-557-4

**National legislation**

**Notification status**

- : EINECS yes  
The formulation contains ELINCS substances.
- : TSCA yes
- : DSL no
- : AICS yes
- : KECI (KR) yes
- : ENCS (JP) no
- : INV (CN) yes
- : PICCS (PH) no

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## 16. OTHER INFORMATION

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

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
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.
R61	May cause harm to unborn child.
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).

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.