

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
Revision Date 16.05.2005

Print Date 17.05.2005

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

### Product information

Trade name : ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR

Use : Hardener for adhesive systems

Company : Huntsman Advanced Materials (Europe)BVBA  
Everslaan 45  
3078 Everberg / Belgium

Telephone : +41619661599

Telefax : +41619661589

Emergency telephone number : +41 61 966 40 00 (in France ORFILA : +33(0)145425959)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical nature

Formulated polyamine  
preparation

### Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases	Concentration [%]
Terphenyl, hydrogenated EC-No.: 262-967-7	61788-32-7		R53	5.00 - 10.00
2,4,6-tris(dimethylaminomethyl)phenol EC-No.: 202-013-9	90-72-2	Xn	R22 R36/38	2.00 - 6.00
triethylene glycol dimercaptan EC-No.: 239-044-2	14970-87-7	Xn	R20/22	2.00 - 6.00
N(3-dimethylaminopropyl)-1,3-propylenediamine EC-No.: 234-148-4	10563-29-8	C	R21/22 R34 R43	1.00 - 3.00
terphenyl EC-No.: 247-477-3	26140-60-3	N	R50/53	0.50 - 1.00

## 3. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

## 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 immediately with soap and plenty of water.  
If skin irritation persists, call a physician.

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
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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 (CO<sub>2</sub>).  
Foam.

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.  
Sulphur oxides.

## 6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions : Prevent product from entering drains.  
Do not contaminate surface water.  
Should not be released into the environment.

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.

Storage hazard class : Storage class 12, Liquids, not dangerous  
Huntsman Advanced

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
Revision Date 16.05.2005

Print Date 17.05.2005

Materials

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Terphenyl, hydrogenated	61788-32-7			
terphenyl	26140-60-3	5 mg/m3 0.5 ppm 4.8 mg/m3 0.5 ppm		EH40 OES EH40 OES EH40 OES EH40 OES

### Engineering measures

No special precautions required.

### Personal protective equipment

- Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.
- Eye protection : Tightly fitting safety goggles.
- Hand protection : rubber or plastic gloves
- 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.  
Keep away from sources of ignition - No smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : light yellow
- Odour : amine-like
- Boiling point : > 200 °C
- Thermal decomposition : > 200 °C
- Flash point : 125 °C  
Method: DIN 51758 (Pensky-Martens Closed Cup)
- Vapour pressure : < 10 Pa  
at 20 °C

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
Revision Date 16.05.2005

Print Date 17.05.2005

Density	: 1.15 g/cm <sup>3</sup> at 25 °C
Water solubility	: at 20 °C Note: practically insoluble
Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 65 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. Sulphur oxides. nitrogen oxides (NO <sub>x</sub> ) Burning produces obnoxious and toxic fumes.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: 2,300 mg/kg
Eye irritation	: No eye irritation rabbit
Skin irritation	: No skin irritation rabbit dermal
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 : Avoid subsoil penetration.

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
Revision Date 16.05.2005

Print Date 17.05.2005

information

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:

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): : Xi Irritant

R-phrases : R43 May cause sensitization by skin contact.

S-phrases : 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.

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

Version 4  
Revision Date 16.05.2005

Print Date 17.05.2005

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Hazardous components : N(3-dimethylaminopropyl)-1,3-propylenediamine  
which must be listed on the label EC-No.: 234-148-4

**National legislation**

**Notification status**

|| : EINECS yes

: TSCA yes

: DSL no

: AICS yes

: KECI (KR) no

: ENCS (JP) no

: INV (CN) no

: PICCS (PH) no

**16. OTHER INFORMATION**

**List of R-phrases (Section 2)**

R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

**Ident-No: ARALDITE 2010 HARDENER/HAERTER/DURCISSEUR**

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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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