

Ident-No: ARALDITE 2040 B US

Version 1
Revision Date 22.03.2009

Print Date 11.05.2009

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

Product information

Trade name : ARALDITE 2040 B US

Use : Polyol for adhesive systems

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

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2. HAZARDS IDENTIFICATION

Risk of serious damage to eyes.
May cause sensitization by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Formulated polyol
preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrase(s)	Concentration [%]
1,1'-phenyliminodipropan-2-ol EC-No.: 221-360-7	3077-13-2	Xi	R41	>= 6.00 - < 12.00
2-ethylhexane-1,3-diol EC-No.: 202-377-9	94-96-2	Xi	R41	>= 4.00 - < 10.00
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol- EC-No.: 203-041-4	102-60-3	Xi	R36/37/38	>= 1.00 - < 7.00
1,2-diaminocyclohexane EC-No.: 211-776-7	694-83-7	C	R20 R34 R43	>= 1.00 - < 7.00
3-aminopropyltriethoxysilane EC-No.: 213-048-4	919-30-2	C	R22 R34	>= 1.00 - < 7.00
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate EC-No.: 255-437-1	41556-26-7	N, Xi	R50/53 R43	< 2.50

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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.
- Ingestion : Immediately give plenty of water (if possible charcoal slurry).
Do not induce vomiting.
Call a physician immediately.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.
Carbon dioxide (CO₂).
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 : Avoid subsoil penetration.
Prevent product from entering drains.
Do not contaminate surface water.
- Methods for cleaning up : Soak up with inert absorbent material.

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.

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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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
3-aminopropyltriethoxysilane	919-30-2			

Engineering measures

No special precautions required.

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.

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 : 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
Form	: liquid
Colour	: grey
Odour	: mild
pH	: 7 suspension
Flash point	: > 93 °C Method: estimated
Density	: 1.23 g/cm ³
Water solubility	: Note: soluble
Miscibility with water	: miscible

10. STABILITY AND REACTIVITY

Conditions to avoid	: Note: No special precautions required.
Materials to avoid	: No special precautions required.
Hazardous decomposition products	: Carbon oxides. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 rat Dose: > 2,000 mg/kg
Skin irritation	: No skin irritation dermal
Sensitization	: sensitizing guinea pig dermal

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Further information on ecology

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Additional ecological information : Avoid subsoil penetration.
Do not contaminate surface water.
Do not let product enter drains.

13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Waste Key Number: 305055
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.

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 : R41 Risk of serious damage to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R43 May cause sensitization by skin contact.

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S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
S37/39 Wear suitable gloves and eye/face protection.

Hazardous components which must be listed on the label : 1,1'-phenyliminodipropan-2-ol
EC-No.: 221-360-7
1,2-diaminocyclohexane
EC-No.: 211-776-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate
EC-No.: 255-437-1
2-ethylhexane-1,3-diol
EC-No.: 202-377-9

National legislation

Water contaminating class : 1 slightly water endangering

Notification status

: AICS yes
: TSCA yes
: DSL yes
: INV (CN) yes
: PICCS (PH) no
: EINECS yes
: ENCS (JP) yes
: KECI (KR) no

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16. OTHER INFORMATION

List of R-phrases (Section 3)

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R41	Risk of serious damage to eyes.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very 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.