

Ident-No: ARALDITE 2040 A 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 A US

Use : Isocyanate for adhesive systems

Company : Huntsman Advanced Materials (Europe)BVBA
Everslaan 45
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2. HAZARDS IDENTIFICATION

Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation and skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Modified isocyanate based on MDI preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases(s)	Concentration [%]
methyloxirane, oxirane, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol ether, 1,1'-methylenebis[4-isocyanatobenzene] polymer	68133-49-3	Xn	R36/37/38 R20 R42/43	>= 88.00 - <= 100.00

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.

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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.

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
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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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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : liquid
- Colour : white
- Odour : slight
- pH : not applicable
- Flash point : > 200 °C

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Method: estimated

Density : 1.14 g/cm³

Water solubility : Note: Reacts with water.

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 : Skin irritation
dermal

Sensitization : Causes sensitization.
guinea pig
Method: Data based on tests on similar product.
dermal

Sensitization : Causes sensitization.
human
inhalation

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Further information on ecology

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

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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.

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): : Xn Harmful

R-phrase(s) : R42/43 May cause sensitization by inhalation and skin contact.
R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s) : S23 Do not breathe vapour, spray.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

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Exceptional labelling of special preparations : Contains isocyanates. See information supplied by the manufacturer.

Hazardous components which must be listed on the label : methyloxirane, oxirane, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol ether, 1,1'-methylenebis[4-isocyanatobenzene] polymer

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

16. OTHER INFORMATION

List of R-phrases (Section 3)

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.
R42/43 May cause sensitization by inhalation and skin contact.

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

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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.