

Ident-No: ARALDITE KIT K 630 B**HAZARDOUS SUBSTANCE. DANGEROUS GOODS**

Version 1

Print Date 11.09.2008

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**Product information**

Trade name : ARALDITE KIT K 630 B
 Use : Hardener for adhesive systems

Company : Huntsman Advanced Materials (Australia)
 PTY Ltd
 Gate 3, Ballarat Road
 3023 Deer Park

Telephone : +61393616060
 Telefax : +61393616066
 Emergency telephone : Australia: 1800 786 152/New Zealand : 0800 767 437/Asia
 number Pacific: + 65 6336 6011

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Formulated polyamine
 preparation

Hazardous components

Chemical Name	CAS-No.	Symbol(s):	R-phrases(s)	Concentration [%]
diethylenetriamine	111-40-0	C	R21/22 R34 R43	>= 30.00 - < 50.00
4,4'-isopropylidenediphenol	80-05-7	Xn	R37 R41 R43 R62	>= 20.00 - < 30.00
triethylenetetramine	112-24-3	C	R21 R34 R43 R52/53	>= 7.00 - < 10.00

Also contains other ingredients not hazardous to the criteria of ASCC.

3. HAZARDS IDENTIFICATION

Harmful in contact with skin and if swallowed.
 Causes burns.
 May cause sensitization by skin contact.
 Possible risk of impaired fertility.
 Irritating to respiratory system.
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Poison schedule: 5

4. FIRST AID MEASURES

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

Eye contact : Rinse immediately with plenty of water, also under the eyelids,
 for at least 15 minutes.
 Call a physician immediately.

Skin contact : Wash off with soap and plenty of water.
 Do NOT use solvents or thinners.

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- If skin irritation persists, call a physician.
- Ingestion : Do not induce vomiting.
Immediately give plenty of water (if possible charcoal slurry).
Obtain medical attention.
- Notes to physician**
- Treatment : No specific antidote. Treat symptomatically.
First aid facility: Eye wash station . Showering facility.
Poisons Information Centres (131 126 in Australia and 0800
764 766 in New Zealand) in each State capital city can provide
advice for scheduled poisons.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray.
Dry powder.
Carbon dioxide (CO₂).
Foam.
- Extinguishing media which must not be used for safety reasons : High volume water jet.
- Specific hazards during fire fighting : Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Do not breathe vapours/dust.
Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
- Environmental precautions : Do not allow material to contaminate ground water system.

If in doubt contact Huntsman Advanced Materials. Limited
using contact details provided on this SDS.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
diethylenetriamine	111-40-0	4.2 mg/m ³		AU-TWA

Engineering measures

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Wherever possible, the workplace must be ventilated sufficiently to ensure that exposure standards are met. Ensure airflow, where this product is being used, is directed away from the operators.

If cured material made from this product is to be cut or sanded, ensure that dust is kept below the Worksafe Exposure Standard for inspirable dusts (10mg/m³) or the ACGIH Exposure Standard for respirable dusts (3mg/m³).

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.
Face-shield.
- 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 : Protective suit.
Safety shoes.
- Hygiene measures : Keep away from food, drink and animal feeding stuffs.
Wash hands before breaks and immediately after handling the

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product.

Protective measures : Avoid contact with skin, eyes and clothing.

Avoid exceeding the Exposure Standards by use of adequate ventilation / extraction. If this is not possible, use appropriate personal protective equipment meeting AS/NZS 1715 and AS/NZS 1716.

Avoid contact with skin and eyes by wearing long impervious gloves, (Rubber, Neoprene, PVC complying to AS 2161) and industrial safety glasses. Respiratory protection complying with AS 1715, 1716 should be worn if ventilation at the workplace is inadequate. Apply barrier creams to exposed skin areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Colour	: clear blue
pH	: approx.13 at (20 °C) 1:1 in water
Boiling point	: approx.> 200 °C
Thermal decomposition	: > 200 °C
Flash point	: > 100 °C Method: DIN 51758 (Pensky-Martens Closed Cup)
Vapour pressure	: < 100 Pa at 20 °C
Density	: 1.00 - 1.05 g/cm ³ at 25 °C
Water solubility	: at 20 °C Note: partly soluble
Viscosity, dynamic	: 700 - 900 mPa.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.

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- Hazardous decomposition products : Burning produces obnoxious and toxic fumes.
Carbon oxides.
Nitrogen oxides.
Product will not decompose explosively.
- Hazardous reactions : Product as received will not present a dust explosion hazard. If cured material made using this product is to be machined, or sanded, a dust explosion hazard may be created. All dust generated should be removed as quickly as possible, preferably by the use of a vacuum cleaner.

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 rat
Dose: approx. 2,600 - 2,700 mg/kg
Method: calculated
Remarks: No adverse health effects expected, however large amounts may cause nausea and vomiting.
- Acute inhalation toxicity : Remarks: Where product is used in poorly ventilated areas, and/or in confined spaces and/or at elevated temperatures, vapours may be irritating to the respiratory system.
- Eye irritation : Corrosive rabbit
- Skin irritation : Corrosive rabbit dermal
- Sensitization : Causes sensitization.
guinea pig dermal
- Further information : Chronic exposure: Product is a skin sensitiser. Repeated or prolonged skin contact may result in allergic contact dermatitis.

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

- Product : Spilt / waste material should be disposed of by incineration by an approved agent according to local regulations.
- Container : Empty containers should either be sent to an approved agent for cleaning and recycling or incineration according to local regulations.

14. TRANSPORT INFORMATION**Land transport***Road/ADR:*

UN-No: 2735
 Class: 8
 Item: C7
 Risk No.: 80
 ADR/RID-Labels: 8
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
 contains: DIETHYLENE TRIAMINE
 contains: TRIETHYLENE TETRAMINE

HAZCHEM-CODE: 3X*Rail/RID:*

UN-No: 2735
 Class: 8
 Item: C7
 Risk No.: 80
 ADR/RID-Labels: 8
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
 contains: DIETHYLENE TRIAMINE
 contains: TRIETHYLENE TETRAMINE

Sea transport*IMDG:*

UN-No: 2735
 Class: 8
 Packaging group: II
 ADR/RID-Labels: 8
 MFAG:
 EmS: F-A S-B
 Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
 contains: (DIETHYLENE TRIAMINE)
 contains: (TRIETHYLENE TETRAMINE)

Air transport

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IATA-DGR:

UN/ID No.:	UN 2735
Class:	8
Packaging group:	II
Packing instruction (cargo aircraft):	812
ADR/RID-Labels:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S.
contains:	(DIETHYLENE TRIAMINE)
contains:	(TRIETHYLENE TETRAMINE)

15. REGULATORY INFORMATION**Labelling according to EEC Directive**

Labelling required

Symbol(s):	: C	Corrosive
R-phrases)	: R21/22 R34 R43 R37 R62 R52/53	Harmful in contact with skin and if swallowed. Causes burns. May cause sensitization by skin contact. Irritating to respiratory system. Possible risk of impaired fertility. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	: S26 S36/37/39 S28 S46	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. After contact with skin, wash immediately with plenty of water. If swallowed, seek medical advice immediately and show this container or label.
Hazardous components which must be listed on the label	: diethylenetriamine 4,4'-isopropylidenediphenol triethylenetetramine	

National legislation

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Notification status

: AICS yes

: INV (CN) yes

: EINECS yes

: TSCA yes

16. OTHER INFORMATION

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.

CONTACT POINT:

EH&S MANAGER

TELEPHONE: +61 3 9361 6062

FACSIMILE: +61 3 9361 6095