

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

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

Trade name : RENLAM M-1 AU  
 Use : General purpose low viscosity epoxy resin

Company : Vantico Pty Ltd  
 235 Settlement Road  
 Thomastown 3074

Telephone : +61392802300  
 Telefax : +61392802329  
 Emergency telephone : Australia: 1800 033 111 New Zealand: 0800 734 607 Asia-  
 number Pacific: +61 3 9663 2130

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

Modified bisphenol A epoxy resin  
 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	70.00 - 82.00

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

**3. HAZARDS IDENTIFICATION**

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.

Poison schedule: 5

**4. FIRST AID MEASURES**

Inhalation : Move to fresh air.  
 If symptoms persist, call a physician.

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

Skin contact : Wash off with soap and plenty of water.  
 If skin irritation persists, call a physician.

Ingestion : Immediately give plenty of water (if possible charcoal slurry).  
 Obtain medical attention.  
 Do not induce vomiting.

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

**Notes to physician**

Treatment : No specific antidote. Treat symptomatically.  
First aid facility: Eye wash station . Showering facility.  
Poisons Information Centres in each State capital city can provide advice for scheduled poisons.

**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**

Environmental precautions : Do not allow material to contaminate ground water system.  
Prevent product from entering drains.

If in doubt contact Vantico Pty. 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).  
Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Ensure adequate ventilation.  
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 6 and 28°C.

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

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

Components	CAS-No.	Control parameters	Update	Basis
------------	---------	--------------------	--------	-------

**Engineering measures**

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/m<sup>3</sup>) or the ACGIH Exposure Standard for respirable dusts (3mg/m<sup>3</sup>).

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles.  
Face-shield.

Hand protection : rubber or plastic gloves

Skin and body protection : Protective suit.  
Safety shoes.

Protective measures : 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 : light yellow

Odour : slight

Boiling point : > 200 °C

Thermal decomposition : > 200 °C

Flash point : > 200 °C  
Method: estimated

Vapour pressure : < 0.01 Pa  
at 20 °C

Density : 1.1 g/cm<sup>3</sup>  
at 25 °C

Water solubility : at 20 °C  
Note: practically insoluble

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

Miscibility with water	: immiscible at 20 °C
Viscosity, dynamic	: 1,275 - 1,625 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.
Hazardous decomposition products	: Carbon oxides. Burning produces obnoxious and toxic fumes.  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	: Remarks: No adverse health effects expected, however large amounts may cause nausea and vomiting.  LD50 rat Dose: > 5,000 mg/kg
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	: irritating rabbit
Skin irritation	: irritating rabbit dermal
Sensitization	: sensitizing guinea pig dermal
Further information	: Chronic exposure: Repeated or prolonged contact with low molecular weight (liquid) epoxy resins may result in skin sensitisation.

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

**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 : 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:

Regulation: Not dangerous goods

Rail/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**

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

Labelling required

Symbol(s): : Xi Irritant  
N Dangerous for the environment

R-phrase(s) : R36/38 Irritating to eyes and skin.  
R43 May cause sensitization by skin contact.  
R51/53 Toxic to aquatic organisms, may cause  
long-term adverse effects in the aquatic  
environment.

S-phrase(s) : S28 After contact with skin, wash immediately  
with plenty of soap and water.  
S37/39 Wear suitable gloves and eye/face  
protection.  
S61 Avoid release to the environment. Refer to  
special instructions/Safety data sheets.

Exceptional labelling of special preparations : 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)

**National legislation****Notification status**

- : AICS yes
- : EINECS yes
- : TSCA yes
- : DSL yes
- : KECI (KR) yes
- : JEX (JP) yes

**Ident-No: RENLAM M-1 AU****Hazardous according to the criteria of NOHSC.**

Version 1

Print Date 04.08.2003

Revision Date 04.07.2003

**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 Vantico's General Conditions of Sale.

**CONTACT POINT:**

EH&amp;S MANAGER

TELEPHONE: (03) 9280 2325 or (03) 9280 2300 (switch)

FACSIMILE: (03) 9280 2329