



**IDENTIFICATION**

<b>Chemical Name:</b>	Epoxy Resin Hardener	<b>Packing Group:</b>	III
<b>UN No.</b>	2735	<b>Hazchem Code:</b>	2X
<b>Hazard Class:</b>	8	<b>Proper Shipping Name:</b>	Amines, liquid, corrosive, n.o.s
<b>Dangerous Goods:</b>	Not Applicable	<b>Primary Supplier:</b>	ALL PURPOSE COATINGS PTY LTD
<b>Product Use:</b>	Part B for Epoxy Coating Kit	<b>Poisons Schedule:</b>	5

**PHYSICAL DATA**

<b>Appearance &amp; Odour:</b>	Colourless Liquid, Ammoniacal	<b>Boiling Point:</b>	205 Deg.C
<b>Freezing Point:</b>	Not Applicable	<b>Vapour Pressure:</b>	< 10.34 mmHg at 21 Deg.C
<b>pH:</b>	Not Measured	<b>Specific Gravity:</b>	1.1 (H2O = 1)
<b>Flammability Limits:</b>	Not Applicable	<b>Evaporative Rate:</b>	Not Applicable
<b>Solubility (Water):</b>	<0.1 g/l (25 Deg.C)	<b>Flash Point</b>	96 Deg.C
<b>Density:</b>	64.301 lb/ft3 (1.03 g/cm3) at 70 °F (21 Deg.C)	<b>Auto-ignition:</b>	Not Measured

**INGREDIENTS**

Components	CAS Number	Proportion	Hazard Codes
Cycloaliphatic Amine Cured Hardener		60-80%	
Non Hazardous Additives		0-30%	

**HEALTH HAZARD INFORMATION**

**First Aid**

**Ingestion:** Rinse mouth with water. Give water to drink. DO NOT induce vomiting. Seek medical attention immediately.

**Eye:** Flush with large quantities of water for 30 minutes and seek medical attention.

**Skin:** Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. If swelling, redness, blistering or irritation occurs seek immediate medical advice.

**Inhaled:** Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume comfortable position & keep warm. Keep at rest until fully recovered. If breathing is laboured or stopped seek immediate medical advice.

**Advice to Doctors:** Treat symptomatically.

**ACCIDENTAL RELEASE MEASURES**

Remove all sources of ignition, may burn though not readily ignitable. Clear area of all unprotected personnel. Ventilate area. Contain – prevent run-off into drains and waterways. If contamination of waterways or sewers has occurred, advise the local emergency services.

**Small Spill:** For clean-up of a spill from a single shipping pack soak up with an absorbent material such as sand or other non-combustible absorbent material and place material in a closed container. If applicable, wash the area with detergent and water.

**Large Spill:** Eliminate all sources of sparks or open flame. Wear protective clothing. Stop further release or spread of spilled material. For clean-up, pump or scoop up liquid into a salvage drum. Absorb remaining liquid as for small spills. Place clean up material and damaged containers into salvage drums for disposal. If applicable, wash the area with detergent and water.

#### HANDLING AND STORAGE

**Handling:** When filling, transferring, or emptying of containers, adequate suctioning close to work place necessary. Ensure adequate ventilation. If the occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn.

**Storage:** Keep container tightly closed in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store with acids.

#### STABILITY AND REACTIVITY

**Stability:** Stable.

**Hazardous Polymerisation:** Will not occur

**Incompatibility:** Avoid reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive hydroxyl compounds. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids, Sodium hypochloride. Product slowly corrodes copper, aluminium, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

**Conditions to Avoid:** Avoid high temperatures.

#### Hazardous Decomposition

**Products:** Nitric acid, Ammonia, Nitrogen oxides (Nox). Nitrogen oxide can react with water vapors to form corrosive nitric acid, Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), Aldehydes. Flammable hydrocarbon fragments (e.g. acetylene).

#### TOXICOLOGICAL INFORMATION

Based on the properties of the resin.

**Swallowed:** Oral LD50 is >2,369mg/kg. This material has a corrosive effect on mucous membranes.

**Skin:** Dermal LD50 is >2000mg/kg. This material has a corrosive effect on skin.

**Inhalation:** Components Benzyl alcohol LC50 (4h): 4.178mg/IOECD Test Guideline 403

**Eyes:** This material has a corrosive effect on eyes.

**Acute/Chronic Toxicity:** The No Observed Adverse Effect Level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in a two-year study

Product specific toxicological data are not known. The product has not been tested. The information is derived from the properties of the resin.

#### ECOLOGICAL INFORMATION

Based on the individual components present in the formulation

Environmental Fate

**Movement and Partitioning:** No information was found on any of the components

**Degradation and Persistence:** Mobility: No data available. Bioaccumulation: No data is available on the product itself. Bioaccumulation – Components Benzyl Alcohol Low bioaccumulation potential.

No degradation and persistence data was found for any of other components

**Ecotoxicology:** No data is available on the product itself.

#### DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority. Normally suitable for incineration by approved agent.

#### TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code)

**PRECAUTIONS FOR USE**

**Exposure controls / Personal Protection**

**EXPOSURE STANDARDS**

No exposure standards have been established for this material by State Work Australia. However, exposure should be kept to lowest possible levels.

**Engineering Controls**

Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as reasonably practicable.

**Personal Protection**

Do not breathe vapours or mist. The following personal protective equipment is recommended:

- Eye/face protection e.g., safety goggles or glasses, face-shield.
- Gloves e.g., Butyl, EVAL-Laminate
- Suitable protective clothing e.g., overall, safety shoes
- No respiratory protection is usually required under normal conditions of use
- Use of a hand barrier cream is recommended

**Flammability:** Not Flammable

**EMERGENCY 24 HOURS:**  
**POISONS INFORMATION CENTRE**  
Herston Rd, Herston  
13 11 26 (All Hours)

**Extinguishing**

Use alcohol resistant foam, dry sand, dry chemical, Carbon dioxide (CO<sub>2</sub>), Limestone powder.

**Fire Fighting Measures**

**Flammable Properties**

Combustible liquid, will not burn unless preheated. Isolate from sources of heat, naked flames or sparks. Refer to AS1940 – Storage and handling of flammable and combustible liquids and AS2865 – Safe working in a confined space, for more specific information on these subjects.

**Polymerisation** No specific data available

**Hazardous Combustion Products**

In the event of a fire the following substances can be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

**Fire & Explosion Hazards**

This product will not burn unless preheated. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

**Special Fire Fighting Procedures**

Evacuate personnel to a safe area. If the product is on fire wear a self-contained breathing apparatus and full protective clothing. Cool endangered containers with water spray jet. Fire residues and contaminated fire extinguishing media must be disposed of in accordance with local regulation. Do not allow fire extinguishing media from fire to enter water supplies or drainage systems.

**Hazards Identification**

HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE (AUSTRALIA). NON-DANGEROUS ACCORDING TO THE CRITERIA OF THE ADG CODE Note: This product is classed as a MARINE POLLUTANT only and so the Dangerous Goods classification that follows is for AIR and MARINE transport only. NOT classed as a Dangerous Good for Storage and Road and Rail transport.

**Classification**

Xi - Irritant

**Risk Phrases**

Irritating to eyes  
Irritating to skin  
May cause sensitisation by skin contact  
Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment

**Statement of hazardous nature**

**HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.**

**Safety Phrases**

Avoid contact with skin & eyes  
Do not empty into drains  
Wear suitable protective clothing  
Wear suitable gloves  
Wear eye/face protection

**COMPOSITION/INFORMATION ON INGREDIENTS**

Cycloaliphatic Amine  
Chemical Family: Modified compound of Cycloaliphatic Amine

**Environmental Hazards:** Not classified as a dangerous good by Road/ADG, Rail/RID. Classed as a dangerous good by IMDG, IATA-DGR. Marine Pollutant (IMDG).



IMPORTANT NOTICE: Read the SDS and TDS carefully prior to the use of any product. Application, performance & safety data may change from time to time. In emergency, contact the Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice. **IF THE SITUATION IS LIFE THREATENING, DIAL 000.**

PRODUCT DISCLAIMER: Read the SDS & TDS carefully before use of any product. These documents contain information in context to how you will apply the product, including if it is being used in conjunction with any other products, the type of surfaces and the manner in which the product will be applied. All Purpose Coatings Pty Ltd does not accept any liability either directly or indirectly for any losses that arise from the use or application of the product in accordance with any advice, specification, recommendation or information given by All Purpose Coatings Pty Ltd.