

Liquid Epoxy Resin

Safety Data Sheet

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

PRODUCT NAME	Megapoxy 316 Low Viscosity - Part A
RECOMMENDED USE	Liquid epoxy resin for use in civil engineering.
SUPPLIER	Vivacity Engineering Pty Ltd.
ABN	78 305 545 664
STREET ADDRESS	3 Sefton Road Thornleigh NSW 2120 Australia
TELEPHONE	+61 2 9875 3044
EMAIL	info@megapoxy.com
EMERGENCY TELEPHONE NUMBER	+61 2 9875 3044 Australia: 13 11 26 (Poisons Information Centre) New Zealand: 0800 764 766 (NZ Poisons & Hazardous Chemicals Centre)

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia GHS 7.



SIGNAL WORD	Warning
HAZARD CLASSIFICATIONS	Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Sensitisation - Skin - Category 1 Chronic Hazard to the Aquatic Environment - Category 2

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HAZARD STATEMENTS	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.
PREVENTION PRECAUTIONARY STATEMENTS	P261	Avoid breathing dust, fume, gas, mist, vapours or spray.
	P264	Wash hands, face and all exposed skin thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P273	Avoid release to the environment.
	P280	Wear protective clothing, gloves, eye/face protection and suitable respirator.
RESPONSE PRECAUTIONARY STATEMENTS	P101	If medical advice is needed, have product container or label at hand.
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
STORAGE PRECAUTIONARY STATEMENT	Not allocated.	
DISPOSAL PRECAUTIONARY STATEMENT	Not allocated.	
POISON SCHEDULE	S5. Caution	
DANGEROUS GOOD CLASSIFICATION	Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".	
DANGEROUS GOODS CLASS	9 Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in; (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or (b) IBCs.	

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Bisphenol-A epoxy resin	25068-38-6	30-60 %
Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	68609-97-2	1-9 %
Ingredients determined to be Non-Hazardous		Balance
		100%

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4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

INHALATION	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.
SKIN CONTACT	Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.
EYE CONTACT	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.
INGESTION	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
PPE FOR FIRST AIDERS	Wear safety shoes, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
NOTES TO PHYSICIAN	Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

HAZCHEM CODE	•3Z
SUITABLE EXTINGUISHING MEDIA	If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).
SPECIFIC HAZARDS	Non-combustible material.
FIRE FIGHTING FURTHER ADVICE	Not applicable.

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6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
LARGE SPILLS	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
DANGEROUS GOODS - INITIAL EMERGENCY RESPONSE GUIDE NO:	47

7. HANDLING AND STORAGE

HANDLING	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.
STORAGE	<p>Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.</p> <p>This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.</p> <p>This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.</p>

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL OCCUPATIONAL EXPOSURE LIMITS	No value assigned for this specific material by Safe Work Australia.
BIOLOGICAL LIMIT VALUES	As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.
ENGINEERING MEASURES	Natural ventilation should be adequate under normal use conditions.

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PERSONAL PROTECTION EQUIPMENT	<p>SAFETY SHOES, GLOVES, SAFETY GLASSES.</p> <p>Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.</p> <p>Wear safety shoes, gloves, safety glasses. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.</p>
HYGIENE MEASURES	<p>Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Thick white
Solubility:	Insoluble in water
Specific Gravity (20 °C):	1.45-1.50 @ 25 Deg C
Relative Vapour Density (air=1):	8
Vapour Pressure (20 °C):	<0.01 Pa
Flash Point (°C):	>200 Deg C
Boiling Point/Range (°C):	>200 Deg C
Decomposition Point (°C):	>200 Deg C
Total VOC (g/Litre):	Nil
% Volatile by Volume:	Nil

(Typical values only - consult specification sheet) N Av = Not available, N App = Not applicable.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	This material is thermally stable when stored and used as directed.
CONDITIONS TO AVOID	Elevated temperatures and sources of ignition.
INCOMPATIBLE MATERIALS	Oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of carbon and nitrogen, smoke and other toxic fumes.
HAZARDOUS REACTIONS	No known hazardous reactions.

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11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS	<p>Inhalation Material may be an irritant to mucous membranes and respiratory tract.</p> <p>Skin contact Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.</p> <p>Ingestion Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.</p> <p>Eye contact An eye irritant.</p>
ACUTE TOXICITY	<p>Inhalation This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): $LC_{50} > 20.0$ mg/L for vapours or $LC_{50} > 5.0$ mg/L for dust and mist or $LC_{50} > 20,000$ ppm for gas.</p> <p>Skin contact This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): $>2,000$ mg/Kg bw.</p> <p>Ingestion This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): $>2,000$ mg/Kg bw.</p> <p>Corrosion/Irritancy Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).</p> <p>Sensitisation Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).</p> <p>Aspiration hazard This material has been classified as non-hazardous.</p> <p>Specific target organ toxicity (single exposure) This material has been classified as non-hazardous.</p>
CHRONIC TOXICITY	<p>Mutagenicity This material has been classified as non-hazardous.</p> <p>Carcinogenicity This material has been classified as non-hazardous.</p> <p>Reproductive toxicity (including via lactation) This material has been classified as non-hazardous.</p> <p>Specific target organ toxicity (repeat exposure) This material has been classified as non-hazardous.</p>

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12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

ACUTE AQUATIC HAZARD	This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L.
LONG-TERM AQUATIC HAZARD	This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or $BCF \geq 500$ and/or $\log K_{ow} \geq 4$.
ECOTOXICITY	No information available.
PERSISTENCE AND DEGRADABILITY	No information available.
BIOACCUMULATIVE POTENTIAL	No information available.
MOBILITY	No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

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14. TRANSPORT INFORMATION

ROAD AND RAIL
TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

(a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or

(b) IBCs.



UN No:	3082
Dangerous Goods Class:	9
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	274, 331, 335, 375, AU01
Limited Quantities:	5 L
Hazchem Code:	•3Z
Emergency Response Guide No:	47
Packagings and IBCs	
Packing Instructions	P001, IBC03, LP01
Special Packing Provisions	PP1
Portable Tanks and Bulk Containers	
Instructions	T4
Special Provisions	TP1, TP29
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
Segregation Dangerous Goods:	Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

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MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



UN No:	3082
Dangerous Goods Class:	9
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	274, 335, 969
Limited Quantities:	5 L
Hazchem Code:	•3Z
Emergency Response Guide No:	47
EMS fire:	F-A
EMS spill:	S-F
Packagings and IBCs	
Packing Instructions:	P001, IBC03, LP01
Special Packing Provisions:	PP1
Portable Tanks and Bulk Containers	
Instructions:	T4
Special Provisions:	TP1, TP29
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)

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AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN No:	3082
Dangerous Goods Class:	9
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	A97 A158 A197
ERG Code:	9L
Passengers and Cargo Aircraft Limited Quantities	
Packing Instructions:	Y964
Maximum Net Quantity per Package:	30 kg G
Passengers and Cargo Aircraft	
Packing Instructions:	964
Maximum Net Quantity per Package:	450 L
Cargo Aircraft Only	
Packing Instructions:	964
Maximum Net Quantity per Package:	450 L
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
 The Stockholm Convention (Persistent Organic Pollutants)
 The Rotterdam Convention (Prior Informed Consent)
 International Convention for the Prevention of Pollution from Ships (MARPOL)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives

This material/constituent(s) is covered by the following requirements:

- The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

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16. OTHER INFORMATION

Reason for issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.