

Part B

Liquid Epoxy Resin

Safety Data Sheet

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION		
PRODUCT NAME	Megapoxy 34 - Part B	
RECOMMENDED USE	Liquid epoxy hardener 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.



Danger
Acute Toxicity - Oral - Category 3
Acute Toxicity - Dermal - Category 3
Acute Toxicity - Inhalation - Category 2
Skin Corrosion/Irritation - Category 1A
Serious Eye Damage/Irritation - Category 1
Chronic Hazard to the Aquatic Environment - Category 2

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HAZARD STATEMENTS	H301	Toxic if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H318	Causes serious eye damage.
	H330	Fatal if inhaled.
	H411	Toxic to aquatic life with long lasting effects.
PREVENTION	P260	Do not breathe dust, fume, gas, mist, vapours or spray.
PRECAUTIONARY STATEMENTS	P264	Wash hands, face and all exposed skin thoroughly after handling.
STATEMENTS	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.
	P280	Wear protective clothing, gloves, eye/face protection and suitable respirator.
RESPONSE	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
PRECAUTIONARY STATEMENTS	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
STATEMENTS		Rinse skin with water/shower.
	P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/physician.
STORAGE PRECAUTIONARY STATEMENT	P405	Store locked up.
DISPOSAL PRECAUTIONARY STATEMENT	P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
POISON SCHEDULE	S5. Caution	
DANGEROUS GOOD CLASSIFICATION		rous Goods by the criteria of the "Australian Code for the Transport of Dangerous ail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".
DANGEROUS GOODS CLASS	8	
Subrisk 1:	6.1	

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CHEMICAL ENTITY	CAS NO	PROPORTION
Cresylic acid	1319-77-3	10-29 %
Cyclohexanamine, 4,4'-methylenebis[2-methyl-	6864-37-5	30-60 %
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-	2855-13-2	1-9 %
Phosphorous acid, triphenyl ester	101-02-0	10-29 %
Ingredients determined to be Non-Hazardous		Balance
		100%

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. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
SKIN CONTACT	This material, or a component of the material, can be absorbed through the skin with resultant toxic effects. 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. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.
EYE CONTACT	Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.
INGESTION	Immediately 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. Immediately call Poisons Centre or Doctor. Transport to a doctor or hospital quickly.
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. Can cause corneal burns.

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5. FIRE FIGHTING MEASURES		
HAZCHEM CODE	2X	
SUITABLE EXTINGUISHING MEDIA	lf material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).	
SPECIFIC HAZARDS	Non-combustible material.	
FIRE FIGHTING FURTHER ADVICE	Not applicable.	

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:	37	

7. HANDLING AND STORAGE		
HANDLING	Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.	
STORAGE	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. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.	
	This material is classified as a Class 8 Corrosive, Division 6.1 Toxic Substance 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.	
	This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.	

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL OCCUPATIONAL		ppm	TWA mg/m³	ppm	STEL mg/m ³	NOTICES
EXPOSURE LIMITS	Cresol, all isomers	5	22	-	-	Sk
	As published by Safe Work Australia.					
	TWA - The time-weighted average airborne concer day working week over an entire working life.	ntration o	ver an eight	-hour v	vorking day	ı, for a five-
	STEL (Short Term Exposure Limit) - the average ai which should not be exceeded at any time during a					period
	'Sk' Notice - absorption through the skin may be a standard is invalidated if such contact should occu	-	t source of	exposu	re. The exp	osure
	These Exposure Standards are guides to be used in All atmospheric contamination should be kept too standards should not be used as fine dividing lines chemicals. They are not a measure of relative toxic	as low a le between	evel as is wo	orkable.	These exp	osure
If the directions for use on the product label are followed, exposure of individuals u should not exceed the above standard. The standard was created for workers who potentially exposed during product manufacture.					-	
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	Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.					
PERSONAL	SAFETY SHOES, GLOVES, SAFETY GLASSES.					
PROTECTION EQUIPMENT	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.					
	Wear safety shoes, gloves, safety glasses. Available rubber should be suitable for intermittent contact. and local conditions, the user should make a final a eating, drinking or using the toilet. Wash contamin before storing or re-using.	However, ssessme	due to vari nt. Always v	ations i vash ha	n glove cor nds before	nstruction smoking,
HYGIENE MEASURES	Keep away from food, drink and animal feeding stu hands prior to eating, drinking or smoking. Avoid c contact. Avoid inhalation of dust. Ensure that eyew workstation location.	ontact wi	th clothing.	Avoid e	ye contact	and skin

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Clear
Solubility:	Soluble in water
Specific Gravity (20 °C):	0.98-1.02 @ 25 Deg C
Relative Vapour Density (air=1):	8.2
Vapour Pressure (20 °C):	<0.01 Pa
Flash Point (°C):	173 Deg C
Flammability Limits (%):	0.5 - 2.8
Autoignition Temperature (°C):	275 Deg C
Boiling Point/Range (°C):	216 Deg C
Decomposition Point (°C):	>200 Deg C
pH:	9.0-10.5
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:

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ACUTE EFFECTS	Inhalation
	Fatal if inhaled. Material may be an irritant to mucous membranes and respiratory tract.
	Skin contact
	Toxic in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
	Ingestion
	Toxic if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.
	Eye contact
	A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury.
ACUTE TOXICITY	Inhalation
	This material has been classified as a Category 2 Hazard. Acute toxicity estimate (based on ingredients): $0.5 < LC_{50} \le 2.0$ mg/L for vapours or $0.05 < LC_{50} \le 0.5$ mg/L for dust and mist Skin contact
	This material has been classified as a Category 3 Hazard. Acute toxicity estimate (based on ingredients): 200 - 1,000 mg/Kg bw.
	Ingestion
	This material has been classified as a Category 3 Hazard. Acute toxicity estimate (based on ingredients): 50 - 300 mg/Kg bw.
	Corrosion/Irritancy
	Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 1A Hazard (irreversible effects to skin).
	Sensitisation
	Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.
	Aspiration hazard
	This material has been classified as non-hazardous.
	Specific target organ toxicity (single exposure)
	This material has been classified as non-hazardous.
CHRONIC TOXICITY	Mutagenicity
	This material has been classified as non-hazardous.
	Carcinogenicity
	This material has been classified as non-hazardous.
	Reproductive toxicity (including via lactation)
	This material has been classified as non-hazardous.
	Specific target organ toxicity (repeat exposure)
	This material has been classified as non-hazardous.

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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".

CORROSIVE 8 6	
UN No:	2922
Dangerous Goods Class:	8
Subsidiary Risk, Secondary Subsidiary:	6.1
Packing Group:	II
Special Provisions:	274
Limited Quantities:	1L
Hazchem Code:	2X
Emergency Response Guide No:	37
Packagings and IBCs	
Packing Instructions	P001, IBC02
Special Packing Provisions	
Portable Tanks and Bulk Containers	
Instructions	Τ7
Special Provisions	TP2
Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl- and Cresylic acid)
Segregation Dangerous Goods:	Not to be loaded with explosives (Class 1), dangerous when wet substances (Class 4.3), oxidising agents (Class 5.1), organic peroxides (Class 5.2), radioactive substances (Class 7) or food and food packaging in any quantity. Note 1: Concentrated strong alkalis are incompatible with concentrated strong acids. Note 2: Concentrated strong acids are incompatible with concentrated strong alkalis. Note 3: Acids are incompatible with Dangerous Goods of Class 6 which are cyanides. Exemptions may apply.

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MARINE TRANSPORT

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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.

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UN No:	2922
Dangerous Goods Class:	8
Subsidiary Risk, Secondary Subsidiary:	6.1
Packing Group:	II
Special Provisions:	274
Limited Quantities:	1L
Hazchem Code:	2X
Emergency Response Guide No:	37
EMS fire:	F-A
EMS spill:	S-B
Packagings and IBCs	
Packing Instructions:	P001, IBC02
Special Packing Provisions:	
Portable Tanks and Bulk Containers	
Instructions:	Т7
Special Provisions:	TP2
Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl- and Cresylic acid)

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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:	2922
Dangerous Goods Class:	8
Subsidiary Risk, Secondary Subsidiary:	6.1
Packing Group:	II
Special Provisions:	A3, A803
ERG Code:	8P
Passengers and Cargo Aircraft Limited (Quantities
Packing Instructions:	Y840
Maximum Net Quantity per Package:	0.5 L
Passengers and Cargo Aircraft	
Packing Instructions:	851
Maximum Net Quantity per Package:	1L
Cargo Aircraft Only	
Packing Instructions:	855
Maximum Net Quantity per Package:	30 L
Proper Shipping Name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl- and Cresylic acid)

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.

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