

Thinners for Epoxy Products

Safety Data Sheet

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

PRODUCT NAME	Megapoxy Thinners
RECOMMENDED USE	Thinners for epoxy products
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.



SIGNAL WORD	Danger
HAZARD CLASSIFICATIONS	Flammable Liquids - Category 2 Acute Toxicity - Dermal - Category 4 Acute Toxicity - Inhalation - Category 4 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation

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HAZARD STATEMENTS	H225	Highly flammable liquid and vapour.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H336	May cause drowsiness or dizziness.
PREVENTION PRECAUTIONARY STATEMENTS	P210	Keep away from heat/sparks/open flames/hot surfaces and other ignition sources. No smoking.
	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
	P260	Do not breathe dust, fume, gas, mist, vapours or spray.
	P264	Wash hands, face and all exposed skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P280	Wear protective clothing, gloves, eye/face protection and suitable respirator.
RESPONSE PRECAUTIONARY STATEMENTS	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340	IF INHALED: 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.
	P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P370+P378	In case of fire: Use alcohol resistant foam, fine water spray or water fog for extinction.
STORAGE PRECAUTIONARY STATEMENT	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
DISPOSAL PRECAUTIONARY STATEMENT	P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
POISON SCHEDULE	S6. Poison	
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	3	

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3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Ethanol	64-17-5	30-60 %
Xylene	1330-20-7	30-60 %
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	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, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. 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.

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5. FIRE FIGHTING MEASURES

HAZCHEM CODE	3Y
SUITABLE EXTINGUISHING MEDIA	If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide, dry chemical powder).
SPECIFIC HAZARDS	Highly flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.
FIRE FIGHTING FURTHER ADVICE	Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

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	If safe to do so, shut off all possible sources of ignition. 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). Use a spark-free shovel. 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:	14

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. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.</p> <p>This material is classified as a Class 3 Flammable Liquid 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 6 (Poison) and must be stored, maintained and used in accordance with the relevant regulations.</p>

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL OCCUPATIONAL EXPOSURE LIMITS	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Ethyl alcohol	1000	1880	-	-	-
Xylene	80	350	150	655	-
<p>As published by Safe Work Australia.</p> <p>TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.</p> <p>STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.</p> <p>These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.</p>					
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 PROTECTION EQUIPMENT	<p>SAFETY SHOES, GLOVES, SAFETY GLASSES, RESPIRATOR.</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, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact.</p> <p>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	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.				

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Clear Liquid
Colour:	Colourless
Solubility:	Slightly soluble in water and completely soluble in most organic solvents
Specific Gravity (20 °C):	0.86-0.87 @ 25 Deg C
Relative Vapour Density (air=1):	3.7
Vapour Pressure (20 °C):	8 mm Hg
Flash Point (°C):	27 Deg C
Flammability Limits (%):	1.0 - 7.0
Autoignition Temperature (°C):	About 500 Deg C
Boiling Point/Range (°C):	138 Deg C
Evaporation Rate (n-Butyl acetate=1):	0.7
Total VOC (g/Litre):	No Data Available
% Volatile by Volume:	No Data Available

(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:

<p>ACUTE EFFECTS</p>	<p>Inhalation Harmful if inhaled. Material is an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.</p> <p>Skin contact Harmful in contact with skin. Can be absorbed through the skin with resultant toxic effects. Contact with skin will result in irritation.</p> <p>Ingestion Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.</p> <p>Eye contact An eye irritant.</p>
<p>ACUTE TOXICITY</p>	<p>Inhalation This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $10.0 < LC_{50} \leq 20.0$ mg/L for vapours or $1.0 < LC_{50} \leq 5.0$ mg/L for dust and mist</p> <p>Skin contact This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 1,000 - 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 not a 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 a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.</p>

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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.

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 non-hazardous. 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): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K _{ow} < 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".



UN No:	1993
Dangerous Goods Class:	3
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	223, 274
Limited Quantities:	5 L
Hazchem Code:	3Y
Emergency Response Guide No:	14
Packagings and IBCs	
Packing Instructions	P001, IBC03, LP01
Special Packing Provisions	
Portable Tanks and Bulk Containers	
Instructions	T4
Special Provisions	TP1, TP29
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHANOL)
Segregation Dangerous Goods:	Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). 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.



UN No:	1993
Dangerous Goods Class:	3
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	223, 274, 955
Limited Quantities:	5 L
Hazchem Code:	•3Y
Emergency Response Guide No:	14
EMS fire:	F-E
EMS spill:	S-E
Packagings and IBCs	
Packing Instructions:	P001, IBC03, LP01
Special Packing Provisions:	
Portable Tanks and Bulk Containers	
Instructions:	T4
Special Provisions:	TP1, TP29
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHANOL)

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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:	1993
Dangerous Goods Class:	3
Subsidiary Risk, Secondary Subsidiary:	
Packing Group:	III
Special Provisions:	A3
ERG Code:	3L
Passengers and Cargo Aircraft Limited Quantities	
Packing Instructions:	Y344
Maximum Net Quantity per Package:	10 L
Passengers and Cargo Aircraft	
Packing Instructions:	355
Maximum Net Quantity per Package:	60 L
Cargo Aircraft Only	
Packing Instructions:	366
Maximum Net Quantity per Package:	220 L
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHANOL)

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)
- Organic solvents excluding halogenated solvents

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.