

Hazardous, Dangerous Goods

1.MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **EPiC Epoxy500 Part B**

Synonyms

EPIC 2PK EPOXY500 PART B 1L
EPiC 2PK EPOXY 500 PART B 5L

Product Code

EPIC7001
EPIC7005

Recommended use: 2 PK SURFACE COATING

Supplier: Nutech Paint Pty Ltd

ABN: 94 242 116 396

Street Address: 4 Keppler Circuit
Seaford VIC 3198
Australia

Telephone: **03 9770-3000**

Facsimile: **03 9775-1680**

Emergency Telephone number: **03 9770-3000 (7:45 am-4:30 pm; Mon-Fri, AEST)**

2.HAZARDS IDENTIFICATION

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



Signal Word

Danger

Hazard Classifications

Flammable Liquids - Category 3

Acute Toxicity - Oral - Category 4

Aspiration Hazard - Category 1

Skin Corrosion/Irritation - Category 1B

Eye Damage/Irritation - Category 1

Sensitisation - Skin - Category 1

Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation

Specific Target Organ Toxicity (Single Exposure) - Category 3 Narcotic Effects

Specific Target Organ Toxicity (Repeated Exposure) - Category 2

Chronic Hazard to the Aquatic Environment - Category 3

Hazard Statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing including eye/face protection and suitable respirator.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	Remove person to fresh air and keep 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 P330	Immediately call a POISON CENTER/doctor/insert appropriate source of emergency medical advice.
P331	Rinse mouth.
P333+P313	Do NOT induce vomiting.
P362+P364	If skin irritation or rash occurs: Get medical advice/attention.
P363	Take off contaminated clothing and wash it before reuse
P370+P378	Wash contaminated clothing before reuse. In case of fire: Use (insert appropriate media) to extinguish.

Storage Precautionary Statements

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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.
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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: 3

3.COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
n-Butanol	71-36-3	10 - 30 %

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Benzyl alcohol	100-51-6	10 - 30 %
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-	2855- 13-2	1 - 10 %
Xylene	1330- 20-7	10 - 30 %
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	1 - 10 %
m-Xylenediamine	1477- 55-0	1 - 10 %
Bisphenol-A type solid epoxy resin	25036-25-3	10 - 30 %
Ingredients determined to be Non-Hazardous		Balance

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 to fresh air, remove any contaminated clothing to prevent further exposure. Keep victim warm. If symptoms persist seek medical attention

Skin Contact: Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation, swelling or blistering occurs seek medical attention immediately.

Eye contact: Immediately open eye and flush with plenty of running water for at least 15 minutes. Seek medical attention

Ingestion: If swallowed do not induce vomiting. Rinse the mouth out with water and give a glass of water and seek medical attention immediately

Notes to physician: Treat symptomatically. Effects may be delayed. Can cause corneal burns. Treat symptomatically. The Poisons Information Centre can be contacted on 131 126 for advice or contact your local doctor or hospital.

5.FIRE FIGHTING MEASURES

Hazchem Code: •3Y

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: 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. Remove all ignition sources. Isolate area. Recover free liquid. Absorb in dry inert material and place in a sealable container and label accordingly. Avoid breathing vapours. Adequate ventilation or the use of breathing apparatus may be needed. Local authorities will need to be advised if spill is of a large enough volume.

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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. Remove all ignition sources. Isolate area. Recover free liquid. Absorb in dry inert material and place in a sealable container and label accordingly. Avoid breathing vapours. Adequate ventilation or the use of breathing apparatus may be needed. Local authorities will need to be advised if spill is of a large enough volume.

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. Keep out of the reach of children. Avoid contact with eyes or mouth and avoid repeated prolonged contact with skin.

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. Store in a cool dry place out of direct sunlight, away from ignition sources and not stored near oxidising materials. Containers should be sealed when not in use and should be checked on a regular basis for signs of damage or leaks.

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.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
m-Xylene-a,a'-diamine	-	0.1 Peak	-	-	Sk
n-Butyl alcohol	50 Peak limitation	lim itatio n 152 Peak limitation	-	-	Sk
Xylene		350	150	655	

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

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.

'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

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

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fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

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.

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: SAFETY SHOES, OVERALLS, GLOVES, CHEMICAL GOGGLES, RESPIRATOR.

Wear safety shoes, overalls, gloves, chemical goggles, 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.

Hygiene measures: Practice strict hygiene – wash hands before breaks and after finishing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Base Units:	Litres
Form:	Viscous Liquid
Colour:	Slight yellow
Odour:	Aromatic Hydrocarbon and Amine
Solubility:	Insoluble in Water
Solubility in water:	0.175 grams per Litre
Specific Gravity (20 °C):	0.99 - 1.00
Relative Vapour Density (air=1):	3.7
Vapour Pressure (20 °C):	0.8-1.2 kPa @ 20°C
Flash Point (°C):	23-27
Flammability Limits (%):	1.0 - 7.1
Autoignition Temperature (°C):	432-530
Boiling Point/Range (°C):	118 - 145
pH:	N/APP
Evaporation Rate (n-Butyl acetate=1):	13.5
Total VOC (g/Litre):	365

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal use conditions.

Conditions to avoid: Avoid repeated contact with person, contact with food and high temperature conditions with sealed containers.

Incompatible materials: Incompatible with Oxidising Agents

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Hazardous decomposition products: Oxides of Carbon (Carbon Dioxide and Carbon Monoxide)

Hazardous reactions: No hazardous reactions are known of this product

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

Inhalation: Inhalation of the product can produce an irritating effect to the mucous membrane of the respiratory tract. Headache, nausea, loss of balance and drowsiness is common when excess inhalation occurs. Central nervous depression can also occur with excess inhalation, which may lead to unconsciousness. 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.

Skin contact: If contact with the skin is made a degreasing effect will be witnessed and will be likely to cause irritation of the skin. Repeated contact can lead to conditions such as dermatitis in the contact area. Absorption of some of the product components may occur and produce the relevant toxic effects. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: Harmful if swallowed. If swallowed nausea, vomiting and depression of the central nervous system can occur. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

Eye contact: May be irritating to the eye.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >20 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as a Category 1B Hazard (irreversible effects to skin).

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).

Aspiration hazard: This material has been classified as Aspiration Hazard – Category 1

Specific target organ toxicity (single exposure): This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation. This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

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.

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Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 Hazard.

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 Acute Toxicity Fish :Toxic: 1 < LC/EC/IC50 <= 10 mg/l Aquatic Invertebrates :Toxic: 1 < LC/EC/IC50 <= 10 mg/l Algae :Toxic: 1 < LC/EC/IC50 <= 10 mg/l

Long-term aquatic hazard: This material has been classified as a Category Chronic 3 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): 10 - 100 mg/L, where the substance is not rapidly degradable and/or BCF ≥ 500 and/or log Kow ≥ 4. In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

Ecotoxicity: No information available.

Persistence and degradability: The product is readily biodegradable. Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulative potential: Risk of bioaccumulation in an aquatic species is low. Does not bioaccumulate significantly.

Mobility: Mobile in soil. May leach to groundwater. If product enters soil, it will be highly mobile and may contaminate groundwater.

13.DISPOSAL CONSIDERATIONS

Any disposal of material should be done in accordance with the local authorities

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: Dangerous Goods Class: 1263
Packing Group: Hazchem Code: 3
Emergency Response Guide No: III
Proper Shipping Name: •3Y
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PAINT (PAINT - FLAMMABLE)

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.

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.



UN No: 1263
Dangerous Goods Class: 3
Packing Group: III
Proper Shipping Name: PAINT (PAINT - FLAMMABLE)

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: 1263
Dangerous Goods Class: 3
Packing Group: III
Proper Shipping Name: PAINT (PAINT - FLAMMABLE)

15. REGULATORY INFORMATION

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 New Zealand Inventory of Chemical (NZIoC).

HSNO Group Standard: HSR002662 - Surface Coatings and Colourants (Flammable) Group Standard

16. OTHER INFORMATION

Reasons for issue: Revised
5 Yearly Revision

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.