



# EpiMax SAFETY DATA SHEET

Product Name **EpiMax 330 Part A / Compound**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Supplier Name</b>	EPIMAX TECHNOLOGIES PTY LTD
<b>Address</b>	4/3 Moorebank Avenue, Moorebank, NSW, AUSTRALIA, 2170
<b>Telephone</b>	1300 721 522
<b>Fax</b>	(02) 9904 3207
<b>Emergency</b>	13 11 26
<b>Synonym(s)</b>	330 Part A / Compound • 5023300 – PRODUCT CODE • EPOXIDE RESIN
<b>Use(s)</b>	Two component epoxy system. Use with EPIMAX 330 Part B / HARDENER
<b>SDS Date</b>	14/02/20

## 2. HAZARDS IDENTIFICATION

**GHS Classifications**

Skin corrosion / irritation: Category 2  
Skin sensitization: Category 1  
Aquatic Chronic: Category 2  
Eye Irritation: Category 2A



### HAZARD STATEMENTS

H411	Toxic to aquatic life with long lasting effects
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction

### PREVENTION STATEMENTS

P262	Do not get in eyes, on skin or on clothing
P264	Wash hands thoroughly after handling
P272	Contaminated clothing should not be allowed out of workplace
P273	Avoid release to the environment

**Product Name: EpiMax 330 Part A / Compound**

**RESPONSE STATEMENTS**

P280	Wear protective gloves and eye protection
P302+352	IF ON SKIN, wash with plenty of soap and water
P362	Take off contaminated clothing and wash before use
P333+313	If skin irritation or rash occurs, get medical advice / attention
P305+351	IF IN EYES, rinse cautiously with water for several minutes
P337+13	If eye irritation persists, get medical advice / attention
P391	Collect spillage
501	Dispose of contents / containers in accordance with local regulation

<b>UN No.</b>	None Allocated	<b>DG CLASS</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated		

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>Formula</b>	<b>CAS NO.</b>	<b>Content</b>
BISPHENOL A EPOXY RESIN	NOT AVAILABLE	025085-99-0	45% - 55%
INERT FILLER	NOT AVAILABLE	014808-60-7	>30%
OTHER NON- SCHEDULE			NOT AVAILABLE

**4. FIRST AID MEASURES**

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Airline respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>Special Treatment</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eye wash fountain, safety shower and normal washroom facilities.

**5. FIRE FIGHTING MEASURES**

<b>Special Hazards</b>	Combustible. May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to decomposition.
<b>Advice for firefighters</b>	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing Media</b>	Dry agent, carbon dioxide or water fog. Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	None Allocated.

Product Name: **EpiMax 330 Part A / Compound**

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all ignition sources.

## 7. STORAGE AND HANDLING

**Storage** Store tightly sealed in a cool, dry, well ventilated area, removed from oxidising agents, acids, alkalis, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should be bunded and have appropriate fire protection and ventilation systems.

**Precautions for safe handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

**Exposure Stds** No exposure standard(s) allocated.

**Biological Limits** No biological limit allocated.

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

**PPE** Wear splash-proof goggles, nitrile or viton (R) gloves, coveralls and a Type A (Organic vapour) respirator. If sanding dry product, wear: a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear: impervious coveralls and an Air-line respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	CLEAR LIQUID	<b>Solubility (water)</b>	INSOLUBLE
<b>Odour</b>	AROMATIC ODOUR	<b>Specific Gravity</b>	1.1
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	10 %
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NOT AVAILABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	> 100°C (cc)
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE		
<b>Autoignition Rate</b>	NOT AVAILABLE	<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Partition Coefficient</b>	NOT AVAILABLE	<b>Viscosity</b>	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to avoid</b>	Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to decomposition.
<b>Hazardous Reactions</b>	Hazardous polymerization is not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Health hazard summary</b>	Irritant - low to moderate toxicity. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and inhalation. May cause sensitisation by skin contact. The cured product is considered nontoxic.
<b>Eye</b>	Irritant. Contact may result in irritation, lacrimation, pain and redness.
<b>Inhalation</b>	Irritant. Over exposure whilst curing may result in irritation of the nose and throat, coughing, possible sensitisation with asthma-like symptoms and pulmonary oedema at high levels.
<b>Skin</b>	Irritant. Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by skin contact.
<b>Ingestion</b>	Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.
<b>Toxicity Data</b>	CAS 25068-38-6 Reaction product Bisphenol – A – Epoxy Resin Oral LD50 > 15,000 mg/ kg (rat) Dermal LD50 > 23,000 mg/kg (rabbit) <b>Primary irritant effect</b> On the skin: irritant to skin and mucus membranes On the eye: irritating effect Sensitisation: sensitisation possible through skin contact <b>Long Term Hazards (Chronic Exposure)</b> Inhaled: prolonged exposure to high concentrations of vapour may affect the central nervous system On the skin: Product may be a skin sensitiser in some individuals On the eye: Corneal Injury

## 12. ECOLOGICAL INFORMATION

<b>Other adverse effects</b>	<b>LC50/EC50/IC50 values that is relevant for classification:</b> <b>CAS 25068-38-6 Reaction product Bisphenol-A- Epoxy resin</b> <b>Ecotoxicity:</b> <b>Acute toxicity to fish</b> Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species). LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96 Hour, 2 mg/l <b>Acute toxicity to aquatic invertebrates</b> EC50, Daphnia magna (Water flea), static test, 48 Hour, 1.8 mg/l <b>Acute toxicity to algae/aquatic plants</b>
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Product Name:

## EpiMax 330 Part A / Compound

ErC50, Scenedesmus capricornutum (fresh water algae), static test, 72 Hour, Growth rate inhibition, 11 mg/l

### Toxicity to bacteria

IC50, Bacteria, 18 Hour, Respiration rates. > 42.6 mg/l

### Chronic aquatic toxicity

#### Chronic toxicity to aquatic invertebrates

MATC (Maximum Acceptable Toxicant Level), Daphnia magna (Water flea), semi-static test, 21 d, number of offspring, 0.55 mg/l

### Persistence and Degradability

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

10-day Window: Not applicable

Biodegradation: 12 %

Exposure time: 28 d

Method: OECD Test Guideline 302B or Equivalent

### Bioaccumulative potential

**Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).**

Partition coefficient: n-octanol/water (log Pow): 3.242 at 25 °C Estimated.

### Mobility in Soil

Potential for mobility in soil is low (Koc between 500 and 2000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient (Koc): 1800 - 4400 Estimated.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal</b>	Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD THE CRITERIA OF THE ADG CODE

<b>Shipping Name</b>	None Allocated				
<b>UN No.</b>	None Allocated	<b>DG CLASS</b>	None Allocated	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated	<b>Hazchem Code</b>	None Allocated		

## 15. REGULATORY INFORMATION

<b>Poison Schedule</b>	Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
<b>AICS</b>	All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

**16. OTHER INFORMATION****Additional information**

This product is used in conjunction with EpiMax 330 Part B / Hardener.

**WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT:** If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (eg. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

**EPOXY - PHENOXY RESINS AND POLYURETHANES:** Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear a air-line respirator, full length chemically resistant coveralls and gloves. Further, if an individual is to enter an enclosed booth where a vapour or gas curing process is occurring, an air-line respirator is required. Once cured, these resins are considered non toxic.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken.

Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**ABBREVIATIONS:**

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indices.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m<sup>3</sup> - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

PPM - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.



# EpiMax SAFETY DATA SHEET

Product Name **EpiMax 330 PART B / HARDENER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** EPIMAX TECHNOLOGIES PTY LTD  
**Address** 4/3 Moorebank Avenue, Moorebank, NSW, AUSTRALIA, 2170  
**Telephone** 1300 721 522  
**Fax** (02) 9904 3207  
**Emergency** 13 11 26  
**Synonym(s)** 330 PART B / HARDENER • 50330420 – PRODUCT CODE  
**Use(s)** Two component epoxy system. Hardener for epoxy resin system.  
**SDS Date** 14/02/20

## 2. HAZARDS IDENTIFICATION

**GHS Classifications** Acute Toxicity: Oral: Category 4  
Acute Toxicity: Skin: Category 4  
Skin corrosion/ irritation: Category 1B  
Skin sensitisation: Category 1  
Aquatic Chronic: Category 3

**Signal Word** **DANGER**



### HAZARD STATEMENTS

H302 Harmful if swallowed  
H312 Harmful in contact with skin  
H314 Causes severe skin burns and eye damage  
H317 May cause an allergic skin reaction  
H412 Harmful to aquatic life with long lasting effects

### PREVENTION STATEMENTS

P260 Do not breathe dust/fume gas/mist/vapours/spray  
P264 Wash thoroughly after handling  
P270 Do not eat, drink or smoke when using this product  
P272 Contaminated work clothing should not be allowed out of the workplace  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection

Product Name:

## EpiMax 330 PART B / HARDENER

### RESPONSE STATEMENTS

P301+P330+ P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361 +P353	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/ shower
P304 + P340	IF INHALED: remove 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 centre or doctor / physician.
P321	Specific treatment is advised – see first aid instructions
P333+313	If skin irritation or rash occurs: Get medical advice/ attention
P363	Wash contaminated clothing before reuse

### STORAGE STATEMENTS

P405 Store locked up

### DISPOSAL STATEMENTS

P501 Dispose of contents/ container in accordance with relevant regulations

UN No.	1760	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X		

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
ISOPHORONE DIAMINE	C10-H22-N2	2855-13-2	>50%
M-XYLENEDIAMINE	Not Available	001477-55-0	5% - 15%
BENZYL ALCOHOL	Not Available	000100-51-6	30%- 50%

## 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Airline respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	Corrosive. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>Special Treatment</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eye wash facilities and safety shower should be available.

## 5. FIRE FIGHTING MEASURES



**Product Name:** EpiMax 330 PART B / HARDENER

**Special Hazards** Combustible. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.

**Advice for firefighters** Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing Media** Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.

**Hazchem Code** 2X

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all ignition sources.

## 7. STORAGE AND HANDLING

**Storage** Store in a cool, dry, well ventilated area, removed from oxidising agents, alkalis, acids, heat or ignition sources and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C1 Combustible Liquid (AS1940).

**Precautions for safe handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

**Exposure Stds** No exposure standard (s) allocated.

**Biological Limits** No biological limit allocated.

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

**PPE** Wear splash-proof goggles, nitrile or viton (R) gloves, coveralls and a Type A (Organic vapour) respirator. If sanding dry product, wear: a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear: impervious coveralls and an Air-line respirator.



Product Name:

## EpiMax 330 PART B / HARDENER

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	CLEAR LIQUID	<b>Solubility (water)</b>	NOT AVAILABLE
<b>Odour</b>	SLIGHTLY AMMONIACAL	<b>Specific Gravity</b>	1.00 TO 1.03
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	< 1 %
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	CLASS C1 COMBUSTIBLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	112 °C
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE		
<b>Autoignition Temperature</b>	NOT AVAILABLE	<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Partition Coefficient</b>	NOT AVAILABLE	<b>Viscosity</b>	NOT AVAILABLE

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to avoid</b>	Incompatible with oxidising agents (eg hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.
<b>Hazardous Reactions</b>	Hazardous polymerization is not expected to occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Health hazard summary</b>	Corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Potential sensitising agent. Individuals with pre-existing respiratory impairment (eg asthmatics) or skin sensitivities may be more susceptible to adverse health effects.
<b>Eye</b>	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Inhalation</b>	Corrosive. Over exposure may result in irritation of the nose and throat, coughing, burning sensation, nausea and dizziness. May cause sensitisation by inhalation. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.
<b>Skin</b>	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.
<b>Ingestion</b>	Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.
<b>Toxicity Data</b>	ISOPHORONE DIAMINE (2855-13-2) LD50 (Ingestion): 500 - 1080 mg/kg (rat) LD50 (Skin): 730 - 1090 mg/kg (rabbit)

### 12. ECOLOGICAL INFORMATION

14/02/20

**Product Name:** EpiMax 330 PART B / HARDENER

**Other adverse effects** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

### 13. DISPOSAL CONSIDERATIONS

**Waste disposal** Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION



#### CLASSIFIED AS A DANGEROUS GOOD THE CRITERIA OF THE ADG CODE

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>GTEPG</b>	8A1

#### IATA

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III				

#### IMDG

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III				

### 15. REGULATORY INFORMATION

**Poison Schedule** Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

### 16. OTHER INFORMATION

**Additional information** This product is used in conjunction with EpiMax 330 PART A / Compound.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (eg. for organic vapours/acid gas) may also be required. A Class P1 (Particulate)

**Product Name:**

## **EpiMax 330 PART B / HARDENER**

respirator is recommended if dust is generated.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

### ABBREVIATIONS:

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indices(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m<sup>3</sup> - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

PPM - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.



# EpiMax SAFETY DATA SHEET

Product Name **EpiMax 330 FAST PART B / HARDENER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	EPIMAX TECHNOLOGIES PTY LTD
Address	4/3 Moorebank Avenue, Moorebank, NSW, AUSTRALIA, 2170
Telephone	1300 721 522
Fax	(02) 9904 3207
Emergency	13 11 26
Synonym(s)	330 FAST PART B / HARDENER • 50330420 – PRODUCT CODE
Use(s)	Two component epoxy system. Hardener for epoxy resin system.
SDS Date	14/02/20

## 2. HAZARDS IDENTIFICATION

GHS Classifications	Acute Toxicity: Oral: Category 4 Acute Toxicity: Skin: Category 4 Skin corrosion/ irritation: Category 1B Skin sensitisation: Category 1 Aquatic Chronic: Category 3
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Signal Word **DANGER**



### HAZARD STATEMENTS

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H412	Harmful to aquatic life with long lasting effects

### PREVENTION STATEMENTS

P260	Do not breathe dust/fume gas/mist/vapours/spray
P264	Wash thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection

Product Name:

## EpiMax 330 FAST PART B / HARDENER

### RESPONSE STATEMENTS

P301+P330+ P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361 +P353	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/ shower
P304 + P340	IF INHALED: remove 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 centre or doctor / physician.
P321	Specific treatment is advised – see first aid instructions
P333+313	If skin irritation or rash occurs: Get medical advice/ attention
P363	Wash contaminated clothing before reuse

### STORAGE STATEMENTS

P405 Store locked up

### DISPOSAL STATEMENTS

P501 Dispose of contents/ container in accordance with relevant regulations

UN No.	1760	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X		

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
ISOPHORONE DIAMINE	C10-H22-N2	2855-13-2	>50%
M-XYLENEDIAMINE	Not Available	001477-55-0	5% - 15%
BENZYL ALCOHOL	Not Available	000100-51-6	30%- 50%

## 4. FIRST AID MEASURES

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Airline respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
<b>Skin</b>	Corrosive. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
<b>Special Treatment</b>	Treat symptomatically.
<b>First Aid Facilities</b>	Eye wash facilities and safety shower should be available.

## 5. FIRE FIGHTING MEASURES

**Product Name:** EpiMax 330 FAST PART B / HARDENER

<b>Special Hazards</b>	Combustible. May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.
<b>Advice for firefighters</b>	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing Media</b>	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	2X

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spillage</b>	Contact emergency services where appropriate. Use personal protective equipment. Clear area of all unprotected personnel. Ventilate area where possible. Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all ignition sources.
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## 7. STORAGE AND HANDLING

<b>Storage</b>	Store in a cool, dry, well ventilated area, removed from oxidising agents, alkalis, acids, heat or ignition sources and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C1 Combustible Liquid (AS1940).
<b>Precautions for safe handling</b>	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

<b>Exposure Stds</b>	No exposure standard (s) allocated.
<b>Biological Limits</b>	No biological limit allocated.
<b>Engineering Controls</b>	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended.
<b>PPE</b>	Wear splash-proof goggles, nitrile or viton (R) gloves, coveralls and a Type A (Organic vapour) respirator. If sanding dry product, wear: a Class P1 (Particulate) respirator. If spraying, with prolonged use, or if in confined areas, wear: impervious coveralls and an Air-line respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Product Name:

## EpiMax 330 FAST PART B / HARDENER

<b>Appearance</b>	CLEAR LIQUID	<b>Solubility (water)</b>	NOT AVAILABLE
<b>Odour</b>	SLIGHTLY AMMONIACAL	<b>Specific Gravity</b>	1.00 TO 1.03
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	< 1 %
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	CLASS C1 COMBUSTIBLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	112 °C
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE
<b>Melting Point</b>	NOT AVAILABLE	<b>Lower Explosion Limit</b>	NOT AVAILABLE
<b>Evaporation Rate</b>	NOT AVAILABLE		
<b>Autoignition Temperature</b>	NOT AVAILABLE	<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Partition Coefficient</b>	NOT AVAILABLE	<b>Viscosity</b>	NOT AVAILABLE

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Material to avoid</b>	Incompatible with oxidising agents (eg hypochlorites), acids (eg. nitric acid), alkalis (eg. hydroxides), heat and ignition sources.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (carbon/ nitrogen oxides, amines, ammonia, hydrocarbons) when heated to decomposition.
<b>Hazardous Reactions</b>	Hazardous polymerization is not expected to occur.

### 11. TOXICOLOGICAL INFORMATION

<b>Health hazard summary</b>	Corrosive. This product has the potential to cause adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Potential sensitising agent. Individuals with pre-existing respiratory impairment (eg asthmatics) or skin sensitivities may be more susceptible to adverse health effects.
<b>Eye</b>	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Inhalation</b>	Corrosive. Over exposure may result in irritation of the nose and throat, coughing, burning sensation, nausea and dizziness. May cause sensitisation by inhalation. High level exposure may result in breathing difficulties, ulceration, pulmonary oedema and unconsciousness.
<b>Skin</b>	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.
<b>Ingestion</b>	Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.
<b>Toxicity Data</b>	ISOPHORONE DIAMINE (2855-13-2) LD50 (Ingestion): 500 - 1080 mg/kg (rat) LD50 (Skin): 730 - 1090 mg/kg (rabbit)

### 12. ECOLOGICAL INFORMATION



**Product Name: EpiMax 330 FAST PART B / HARDENER**

**Other adverse effects** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal** Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**



**CLASSIFIED AS A DANGEROUS GOOD THE CRITERIA OF THE ADG CODE**

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III	<b>Hazchem Code</b>	2X	<b>GTEPG</b>	8A1

**IATA**

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III				

**IMDG**

<b>Shipping Name</b>	CORROSIVE LIQUID, N.O.S				
<b>UN No.</b>	1760	<b>DG CLASS</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III				

**15. REGULATORY INFORMATION**

**Poison Schedule** Classified as a Schedule 5 (S5) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**16. OTHER INFORMATION**

**Additional information** This product is used in conjunction with EpiMax 330 PART A / Compound.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (eg. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

**Product Name:**

## **EpiMax 330 FAST PART B / HARDENER**

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**ABBREVIATIONS:**

ACGIH - American Conference of Industrial Hygienists.

ADG - Australian Dangerous Goods.

BEI - Biological Exposure Indice(s).

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

CNS - Central Nervous System.

EC No - European Community Number.

HSNO - Hazardous Substances and New Organisms.

IARC - International Agency for Research on Cancer.

mg/m<sup>3</sup> - Milligrams per Cubic Metre.

NOS - Not Otherwise Specified.

pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).

PPM - Parts Per Million.

RTECS - Registry of Toxic Effects of Chemical Substances.

STEL - Short Term Exposure Limit.

SWA - Safe Work Australia.

TWA - Time Weighted Average.