



# EpiMax MATERIAL SAFETY DATA SHEET

Product Name **EpiMax 333 COMPOUND**

## 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** 1300 721 522  
**Synonym(s)** 333 COMPOUND • 4033320 - PRODUCT CODE  
**Use(s)** Two component epoxy system. Use with EPIMAX 333 HARDENER  
**SDS Date** 18/11/11

## 2. HAZARDS IDENTIFICATION

### RISK PHRASES

R 10 Flammable  
R 20/21 Harmful by inhalation and in contact with skin  
R 36/37/38 Irritating to eyes, respiratory system and skin  
R 43 May cause sensitisation by skin contact  
R 48/50 Harmful: Danger of serious damage to health by prolonged exposure through inhalation

### SAFETY PHRASES

S16 Keep away from sources of ignition - No smoking  
S23 Do not breathe gas/fumes/vapour/spray (where applicable).  
S24/25 Avoid contact with skin and eyes.  
S29 Do not empty into drains.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S38 In case of insufficient ventilation, wear suitable respiratory equipment

<b>UN No.</b>	1993	<b>DG CLASS</b>	3	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	III	<b>Hazchem Code</b>	•3Y		

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
QUARTZ (SILICA CRYSTALLINE)	Si-O2	14808-60-7	5% - 10%
XYLENE	C6H4C2H6	001330-20-7	5% - 10%
FILLER(S)	Not Available	Not Available	>30%
EPOXY RESIN	Not Available	Not Available	30-45%

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#### 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.

#### 5. FIRE FIGHTING MEASURES

<b>Special Hazards</b>	Flammable. May evolve toxic gases (carbon oxides, phenols, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.
<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>	•3Y

#### 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 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 banded and have appropriate fire protection and ventilation systems.
<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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

### Exposure Stds

Ingredient	Reference	TWA		STEL	
Silica, Crystalline Quartz	SWA (AUS)	--	0.1 mg/m <sup>3</sup>	--	--

**Biological Limits** No biological limit allocated.

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

**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>	GREY LIQUID	<b>Solubility (water)</b>	INSOLUBLE
<b>Odour</b>	AROMATIC ODOUR	<b>Specific Gravity</b>	1.70
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	10 %
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	52°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>Decomposition Temperature</b>	NOT AVAILABLE
<b>Autoignition Rate</b>	NOT AVAILABLE	<b>Viscosity</b>	NOT AVAILABLE
<b>Partition Coefficient</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.

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## 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 non toxic.
<b>Eye</b>	Irritant. Contact may result in irritation, lacrimation, pain, redness and conjunctivitis. May result in burns with prolonged contact.
<b>Inhalation</b>	Irritant. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in dizziness, drowsiness, breathing difficulties, pulmonary oedema and unconsciousness. May cause sensitisation by inhalation.
<b>Skin</b>	Irritant. Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by skin contact.
<b>Ingestion</b>	Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness and unconsciousness.
<b>Toxicity Data</b>	QUARTZ (SILICA CRYSTALLINE) (14808-60-7) LCLo (Inhalation): 300 ug/m <sup>3</sup> /10 years (human) LDLo (Intratracheal): 200 mg/kg (rat) LDLo (Intravenous): 20 mg/kg (dog) TCLo (Inhalation): 16 000 000 particles/ft <sup>3</sup> /8 hours/17.9 years (human-fibrosis)

## 12. ECOLOGICAL INFORMATION

<b>Other adverse effects</b>	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.
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## 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. Larger quantities may be incinerated at approved facility. Prevent contamination of drains or waterways as environmental damage may result. Contact the manufacturer for additional information.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

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#### 14. TRANSPORT INFORMATION



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

Shipping Name	FLAMMABLE LIQUID, N.O.S.				
UN No.	1993	DG CLASS	3	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	•3Y	GTEPG	3A1

#### IATA

Shipping Name	FLAMMABLE LIQUID, N.O.S.				
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#### IMDG

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#### 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 333 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.

##### 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.

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### **SYNERGISM - ANTAGONISM:**

Ingredients in this product may act together to aggravate or reduce adverse effects.

Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

### **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.