



EpiMax SAFETY DATA SHEET

Product Name **EpiMax EP BINDER 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 13 11 26
Synonym(s) EpiMax EP BINDER COMPOUND • 503410655 – PRODUCT CODE
Use(s) Two component epoxy system. Compound for epoxy resin system.
SDS Date 31/05/19

2. HAZARDS IDENTIFICATION

GHS Classifications Skin sensitisation: Category 2A
Eye Irritation: Category 1
Skin Irritation: Category 2

Signal Word **WARNING**



HAZARD STATEMENTS

H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause allergic reaction

PREVENTION STATEMENTS

P261 Avoid breathing dust/ fumes/ gas/ mists/ vapours/ spray
P280 Wear protective gloves/protective clothing/eye protection/face protection

RESPONSE STATEMENTS

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Product Name: EpiMax EP BINDER COMPOUND

P362 Take off contaminated clothing and wash before reuse
 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
BISPHENOL-A-(EPICHLORHYDRIN) EPOXY RESIN	NOT AVAILABLE	25068-38-6	70-90%
FORMALDEHYDE, POLYMER WITH 2-(CHLOROMETHYL)OXIRANE AND PHENOL	NOT AVAILABLE	9003-36-5	25-40%
ALKYL (C12-C14) GLYCIDYL ETHER	NOT AVAILABLE	68609-97-2	15-30%

4. FIRST AID MEASURES

Eye 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.

Inhalation 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.

Skin 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.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Special Treatment Treat symptomatically.

First Aid Facilities Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

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

Product Name: EpiMax EP BINDER COMPOUND

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.

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.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	LIGHT YELLOW FLUID	Solubility (water)	INSOLUBLE
Odour	CHARACTERISTIC	Specific Gravity	1.00 TO 1.03
pH	NOT AVAILABLE	% Volatiles	< 1 %

Product Name: EpiMax EP BINDER COMPOUND

Vapour Pressure	NOT AVAILABLE	Flammability	CLASS C1 COMBUSTIBLE
Vapour Density	NOT AVAILABLE	Flash Point	140 °C
Boiling Point	200 °C	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE		
Autoignition Temperature	140 °C	Decomposition Temperature	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	Viscosity	NOT AVAILABLE

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Health hazard summary	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.
Eye	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
Inhalation	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.
Skin	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.
Ingestion	Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.
Toxicity Data	ISOPHORONE DIAMINE (2855-13-2) LD50 (Ingestion): 500 - 1080 mg/kg (rat) LD50 (Skin): 730 - 1090 mg/kg (rabbit)

Product Name: **EpiMax EP BINDER COMPOUND**

12. ECOLOGICAL INFORMATION

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

Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S				
UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X	GTEPG	8A1

IATA

Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S				
UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	III				

IMDG

Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S				
UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	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 EP BINDER HARDENER .

Product Name:

EpiMax EP BINDER 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.

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/m³ - 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.



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Telephone 1300 721 522
Fax (02) 9904 3207
Emergency 13 11 26
Synonym(s) EpiMax EP BINDER HARDENER • 503410555 – PRODUCT CODE
Use(s) Two component epoxy system. Hardener for epoxy resin system.
SDS Date 31/05/19

2. HAZARDS IDENTIFICATION

GHS Classifications Acute Toxicity: Inhalation: Category 4
Eye Damage: Category 1
Skin corrosion/ irritation: Category 1B
Skin sensitisation: Category 1

Signal Word **DANGER**



HAZARD STATEMENTS

H332 Harmful if inhaled
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H317 May cause an allergic skin reaction

PREVENTION STATEMENTS

P260 Do not breathe dust/fume gas/mist/vapours/spray
P272 Contaminated work clothing should not be allowed out of the workplace
P280 Wear protective gloves/protective clothing/eye protection/face protection

Product Name: EpiMax EP BINDER 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

STORAGE STATEMENTS

P405 Store locked up

DISPOSAL STATEMENTS

P501 Dispose of contents/ container in accordance with relevant regulations

UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X		

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE AND 4,4'ISOPROPYLIDENEDIPHENOL	NOT AVAILABLE	68609-08-5	50 - 100%
BENZYL ALCOHOL	NOT AVAILABLE	100-51-6	25 - 50%
SALICYLIC ACID	NOT AVAILABLE	69-72-7	>3-10%

4. FIRST AID MEASURES

Eye 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.

Inhalation 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.

Skin 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.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

Special Treatment Treat symptomatically.

First Aid Facilities Eye wash facilities and safety shower should be available.

Product Name: **EpiMax EP BINDER HARDENER**

5. FIRE FIGHTING MEASURES

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.
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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 EP BINDER HARDENER



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	FLUID	Solubility (water)	NOT AVAILABLE
Odour	CHARACTERISTIC	Specific Gravity	1.00 TO 1.03
pH	NOT AVAILABLE	% Volatiles	< 1 %
Vapour Pressure	NOT AVAILABLE	Flammability	CLASS C1 COMBUSTIBLE
Vapour Density	NOT AVAILABLE	Flash Point	101 °C
Boiling Point	200 °C	Upper Explosion Limit	NOT AVAILABLE
Melting Point	NOT AVAILABLE	Lower Explosion Limit	NOT AVAILABLE
Evaporation Rate	NOT AVAILABLE		
Autoignition Temperature	NOT AVAILABLE	Decomposition Temperature	NOT AVAILABLE
Partition Coefficient	NOT AVAILABLE	Viscosity	NOT AVAILABLE

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Health hazard summary	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.
Eye	Causes burns. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
Inhalation	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.
Skin	Causes burns. Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. May cause sensitisation by skin contact.

Product Name: EpiMax EP BINDER HARDENER

Ingestion Corrosive. Ingestion may result in burns to the mouth and throat, nausea, vomiting, ulceration of the gastrointestinal tract, breathing difficulties, circulatory collapse and coma.

Toxicity Data ISOPHORONE DIAMINE (2855-13-2)
LD50 (Ingestion): 500 - 1080 mg/kg (rat)
LD50 (Skin): 730 - 1090 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

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

Shipping Name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	2X	GTEPG	8A1

IATA

Shipping Name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.				
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Packing Group	III				

IMDG

Shipping Name	POLYAMINES, LIQUID, CORROSIVE, N.O.S.				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	None Allocated
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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).

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

16. OTHER INFORMATION

Additional information This product is used in conjunction with EP BINDER 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.

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.

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