



EpiMax SAFETY DATA SHEET

Product Name **EpiMax CRACK SEAL PART A**

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)	CRACK SEAL • 50420145 – PRODUCT CODE
Use(s)	Two component epoxy system.
SDS Date	21/12/18

2. HAZARDS IDENTIFICATION

GHS Classifications	Acute Toxicity: Oral: Category 4 Acute Toxicity: Inhalation: Category 4 Skin corrosion/ irritation: Category 2 Serious eye damage / irritation: Category 2A Skin sensitisation: Category 1 Specific Target Organ Toxicity: Category 3
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Signal Word **DANGER**



HAZARD STATEMENTS

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

PREVENTION STATEMENTS

P102	Keep out of reach of children
P103	Read label before use
P210	Keep away from all source of ignition – no smoking
P233	Keep container tightly closed

Product Name: EpiMax CRACK SEAL PART A

- 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 measure against static discharge
- P261 Avoid breathing mist, vapour or spray
- P271 Use only outdoors or in a well ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective clothing, gloves, eye/face protection

RESPONSE STATEMENTS

- P301+P330+ P331 Wear protective gloves/protective clothing/eye protection/face protection
- P303+P361 +P353 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P304 + P340 IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/ shower
- P305 + P351 +P338 IF INHALED: remove to fresh air and keep at rest in a position comfortable for breathing
- P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P321 Immediately call a POISON centre or doctor / physician.
- P333+313 Specific treatment is advised – see first aid instructions
- P363 If skin irritation or rash occurs: Get medical advice/ attention

STORAGE STATEMENTS

- P405 Wash contaminated clothing before reuse

DISPOSAL STATEMENTS

- P501 Dispose of contents/ container in accordance with relevant regulations

UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	9		

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
BISPHENOL A-EPICHOHYDRIN REACTION PRODUCT	N/A	25068-38-6	>50%
EXPOY DILUENT	N/A	N/A	5-30%

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.

Product Name: EpiMax CRACK SEAL PART A

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.
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	

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

Product Name: EpiMax CRACK SEAL PART A

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	CLEAR VISCOUS LIQUID	Solubility (water)	INSOLUBLE
Odour	MILD	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	252°C
Boiling Point	260°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

Product Name: EpiMax CRACK SEAL PART A

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)

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	EPOXY RESIN				
UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	III	Hazchem Code	9		

Product Name: EpiMax CRACK SEAL PART A

IATA

Shipping Name	EPOXY RESIN				
UN No.	3082	DG CLASS	9	Subsidiary Risk(s)	None Allocated
Packing Group	III				

IMDG

Shipping Name	EPOXY RESIN				
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 EpiMax Crack Seal Part B.

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 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/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.

Product Name: EpiMax CRACK SEAL PART A

SWA - Safe Work Australia.

TWA - Time Weighted Average.



EpiMax SAFETY DATA SHEET

Product Name **EpiMax CRACK SEAL PART B**

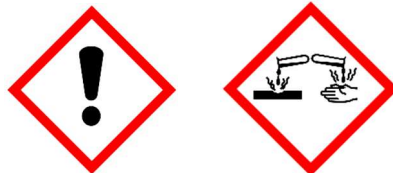
1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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)	CRACK SEAL • 50420155 – PRODUCT CODE
Use(s)	Two component epoxy system.
SDS Date	21/12/18

2. HAZARDS IDENTIFICATION

GHS Classifications	Acute Toxicity: Dermal: Category 4 Acute Toxicity: Inhalation: Category 4 Skin corrosion/ irritation: Category 2 Serious eye damage / irritation: Category 2A Skin sensitisation: Category 1 Specific Target Organ Toxicity: Category 3
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Signal Word **DANGER**



HAZARD STATEMENTS

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

PREVENTION STATEMENTS

P102	Keep out of reach of children
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Product Name: EpiMax CRACK SEAL PART B

P103	Read label before use
P210	Keep away from all source of ignition – 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 measure against static discharge
P261	Avoid breathing mist, vapour or spray
P271	Use only outdoors or in a well ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective clothing, gloves, eye/face protection

RESPONSE STATEMENTS

P301+P330+ P331	Wear protective gloves/protective clothing/eye protection/face protection
P303+P361 +P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P304 + P340	IF ON SKIN: Remove / Take off immediately all contaminated clothing. Rinse skin with water/ shower
P305 + P351 +P338	IF INHALED: remove to fresh air and keep at rest in a position comfortable for breathing
P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321	Immediately call a POISON centre or doctor / physician.
P333+313	Specific treatment is advised – see first aid instructions
P363	If skin irritation or rash occurs: Get medical advice/ attention

STORAGE STATEMENTS

P405	Wash contaminated clothing before reuse
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DISPOSAL STATEMENTS

P501	Dispose of contents/ container in accordance with relevant regulations
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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
BENZYL ALCOHOL	N/A	100-51-6	25-50%
3 AMINO METHYL TRIMETHYLCYCLO HEXYL AMINE	N/A	2855-13-2	10-25%
SALICYLIC ACID	N/A	N/A	1-10%

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.
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Product Name: EpiMax CRACK SEAL PART B

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.
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	

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.

Product Name: **EpiMax CRACK SEAL PART B**

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	COLOURED VISCOUS LIQUID	Solubility (water)	INSOLUBLE
Odour	MILD	Specific Gravity	1.00 TO 1.10
pH	NOT AVAILABLE	% Volatiles	< 1 %
Vapour Pressure	NOT AVAILABLE	Flammability	CLASS C1 COMBUSTIBLE
Vapour Density	NOT AVAILABLE	Flash Point	252°C
Boiling Point	260°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

Product Name: EpiMax CRACK SEAL PART B

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)

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	AMINE
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Product Name: EpiMax CRACK SEAL PART B

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

IATA

Shipping Name	AMINE				
UN No.	2735	DG CLASS	8	Subsidiary Risk(s)	None Allocated
Packing Group	III				

IMDG

Shipping Name	AMINE				
UN No.	2735	DG CLASS	8	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 EpiMax Crack Seal Part A.

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.

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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).

Product Name: EpiMax CRACK SEAL PART B

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.