



# EpiMax MATERIAL SAFETY DATA SHEET

Product Name **EpiMax 842 PART A**

## 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>	1300 721 522
<b>Synonym(s)</b>	608521 – PRODUCT CODE • 842 PART A
<b>Use(s)</b>	Polyurea/ Polyurethane coating
<b>SDS Date</b>	26/10/18

## 2. HAZARDS IDENTIFICATION

**GHS Classifications** Skin Sensitizer: Category 1  
Aquatic Hazard: Category 3  
Aquatic Hazard: Category 3



WARNING

**Signal Word**

### HAZARD STATEMENTS

H317 May cause an allergic skin reaction  
H412 Harmful to aquatic life with long lasting effects

### PREVENTION STATEMENTS

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection  
P261 Avoid breathing mist/ vapours/spray  
P273 Avoid release to the environment  
P272 Contaminated work clothing should not be allowed out of the workplace

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## RESPONSE STATEMENTS

P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P333+P313	If skin irritation or rash occurs: Get medical advice / attention
P501	Dispose of contents / container in accordance with local regulations

<b>UN No.</b>	NOT AVAILABLE	<b>DG CLASS</b>	NOT AVAILABLE	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	NOT AVAILABLE	<b>Hazchem Code</b>	NOT AVAILABLE		

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
ASPARTIC ACID N,N'- (METHYLENEDICYCLOHEXANEDIYL)BIS-,ESTER	NOT AVAILABLE	136210-30-5	90-100%
DIETHYL FUMARATE	NOT AVAILABLE	623-91-6	3%

## 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>	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 water fog. Prevent contamination of drains or waterways
<b>Hazchem Code</b>	None Allocated

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### 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>	COLOURLESS LIQUID	<b>Solubility (water)</b>	IMMISCIBLE AT 15°C
<b>Odour</b>	SLIGHT INHERENT ODOUR	<b>Specific Gravity</b>	1.08
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	
<b>Vapour Pressure</b>	0.26 @25°C	<b>Flammability</b>	Non Flammable
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	65°C
<b>Boiling Point</b>	NOT AVAILABLE	<b>Upper Explosion Limit</b>	NOT AVAILABLE

## EpiMax 842 SERIES PART A

<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>	

### 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 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.

#### Toxicity Data

### 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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## EpiMax 842 SERIES PART A

### 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 WITH THE CRITERIA OF THE ADG CODE**  
**NOT CLASSIFIED AS A DANGEROUS GOOD WITH THE CRITERIA OF THE IMDG CODE**  
**NOT CLASSIFIED AS A DANGEROUS GOOD WITH THE CRITERIA OF THE IATA CODE**

### 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 842 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.

**EPOXY - PHENOXY RESINS AND POLYURETHANES:** Where spray painting with two or more component epoxy resins or polyurethane paints is undertaken, an employee shall wear an 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.

## EpiMax 842 SERIES PART A

### 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.

WA - Time Weighted Average



# EpiMax MATERIAL SAFETY DATA SHEET

Product Name **EpiMax 842 PART B**

## 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>	1300 721 522
<b>Synonym(s)</b>	608421 – PRODUCT CODE • 842 PART B
<b>Use(s)</b>	Polyurea/ Polyurethane coating
<b>SDS Date</b>	26/10/18

## 2. HAZARDS IDENTIFICATION

<b>GHS Classifications</b>	Flammable Liquid: Category 2 Acute Toxicity (Inhalation): Category 4 Skin corrosion / irritation: Category 2 Eye Irritation: Category 2A Skin Sensitizer: Category 1 Specific target organ toxicity (respiratory tract irritation): Category 3
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**Signal Word**

WARNING

### HAZARD STATEMENTS

H227	Combustible liquid
H332	Harmful if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H317	May cause an allergic skin reaction
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

## EpiMax 842 SERIES PART B

### PREVENTION

#### STATEMENTS

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. – NO SMOKING
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P261	Avoid breathing mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace

#### RESPONSE STATEMENTS

P362	Take off contaminated clothing and wash before reuse
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P312	CALL a POISON CENTER or doctor /physician if you feel unwell
P333+P313	If skin irritation or rash occurs: Get medical advice / attention
P337+P313	If eye irritation persists: Get medical advice / attention
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest position comfortable for breathing
P403+P235	Store in a well ventilated place. Keep cool
P405	Store locked up
P501	Dispose of contents/ container in accordance with local regulations

<b>UN No.</b>	NOT AVAILABLE	<b>DG CLASS</b>	NOT AVAILABLE	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	NOT AVAILABLE	<b>Hazchem Code</b>	NOT AVAILABLE		

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS NO.	Content
HEXAMETHYLENE DIISOCYANATE POLYMER	NOT AVAILABLE	28182-81-2	75%
DIPROPYLENE GLYCOL DIMETHYL ETHER	NOT AVAILABLE	111109-77-4	25%
HEXAMETHYLENE DIISOCYANATE	NOT AVAILABLE	822-06-0	<0.2%

### 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.



## EpiMax 842 SERIES PART B

### 5. FIRE FIGHTING MEASURES

<b>Special Hazards</b>	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 water fog. Prevent contamination of drains or waterways
<b>Hazchem Code</b>	None Allocated

### 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 bunded 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.

### 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.

## EpiMax 842 SERIES PART B

### 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>	LIQUID	<b>Solubility (water)</b>	NOT AVAILABLE
<b>Odour</b>	NOT AVAILABLE	<b>Specific Gravity</b>	NOT AVAILABLE
<b>pH</b>	NOT AVAILABLE	<b>% Volatiles</b>	
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	flammable
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	65°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 Rate</b>	NOT AVAILABLE	<b>Decomposition Temperature</b>	NOT AVAILABLE
<b>Partition Coefficient</b>	NOT AVAILABLE	<b>Viscosity</b>	

## 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 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.

## EpiMax 842 SERIES PART B

**Ingestion** Moderate toxicity. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, fatigue, dizziness and unconsciousness.

### Toxicity Data

## 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

**NOT CLASSIFIED AS A DANGEROUS GOOD WITH THE CRITERIA OF THE ADG CODE**  
**NOT CLASSIFIED AS A DANGEROUS GOOD WITH THE CRITERIA OF THE IMDG CODE**  
**NOT CLASSIFIED AS A DANGEROUS GOOD WITH THE CRITERIA OF THE IATA CODE**

## 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 840 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.

## EpiMax 842 SERIES PART B

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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).

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STEL - Short Term Exposure Limit.

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