



SAFETY DATA SHEET

Product Name **EpiMax Pumadur – Base A**

Hazardous, NON-Dangerous Goods

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	EPIMAX TECHNOLOGIES PTY LTD
Address	23 Hargraves Place, Wetherill Park NSW 2164
Telephone	1300 721 522
Fax	(02) 9904 3207
Emergency	13 11 26
Synonym(s)	EpiMax Pumadur- Base A
Use(s)	Component of multi-component industrial coatings - Industrial use
SDS Date	31/03/2023

SECTION 2: HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



Signal Word

Warning

Hazard Classification

Sensitisation - Skin - Category 1

Hazard Statement

H317 May cause an allergic skin reaction.

Prevention Precautionary Statements

P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray..
P272 Contaminated work clothing should not be allowed out of the workplace. P280
Wear protective gloves/protective clothing including eye/face protection.

Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P321 Specific treatment (see on product label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse

Storage Precautionary Statement

Not allocated

Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule:

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

SECTION 3: COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
1,2-Ethanediol	107-21-1	2.5-10 %
Solvent naphtha, petroleum, light aromatic	64742-95-6	0.1-1.0 %
Dipentene	138-86-3	0.1-1.0 %
Cyclohexene, 1-methyl-4-(1-methylethylidene)-	586-62-9	0.1-1.0 %
Nitric acid, magnesium salt	10377-60-3	<0.1 %
Formaldehyde	50-00-0	<0.1 %
mixture of: 5-chloro-2-methyl-2h-isothiazol-3-one [ec no 247-500-7] and 2- methyl-2hisothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	<0.1 %
Ingredients determined to be Non-Hazardous		Balance
		100%

SECTION 4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin Contact: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist

Ingestion: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

PPE for First Aiders: Wear overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 4.2 Most important symptoms and effects, both acute and delayed. No Information 4.3 Indication of any immediate medical attention and special treatment needed. No information available on clinical testing and medical monitoring.

Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations After cleaning, flush away traces with water.

LARGE SPILLS

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations After cleaning, flush away traces with water.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

SECTION 7: HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment

Storage: Do not freeze. Keep tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Ethylene glycol (particulate)	-	10	-	-	Sk
Ethylene glycol (vapour)	20	52	40	104	Sk
Formaldehyde	1	1.2	2	2.5	Sen

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

'Sen' Notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe

and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: OVERALLS, GLOVES, CHEMICAL GOGGLES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, chemical goggles, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

RECOMMENDATIONS FOR CONSUMER USE:

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment.

EYE PROTECTION: Tightly fitting safety goggles.

HAND PROTECTION: Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing.

Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

Hygiene measures: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Base Units:	Kilogram
Form:	Liquid
Colour:	Not determined
Odour:	Slight
Solubility:	Emulsion
Solubility in water:	Emulsion
Specific Gravity:	0.120
Density:	1.03
Relative Vapour Density (air=1):	Not determined
Vapour Pressure (20 °C):	Not determined
Flash Point (°C):	100
Flammability Limits (%):	Not determined
Autoignition Temperature (°C):	Not determined
Melting Point/Range (°C):	Not determined
Pour Point/Range (°C):	Not determined
Boiling Point/Range (°C):	126 - 102
Decomposition Point (°C):	Not determined
Sublimation Point (°C):	Not determined
Dropping Point (°C):	Not determined
pH:	Not determined
Viscosity:	Not determined
Surface Tension:	Not determined
Evaporation Rate (n-Butyl acetate=1):	Not determined Partition
Coefficient:	Not determined

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Total VOC (g/Litre):	0
Odour Threshold:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined
% Volatile by Volume:	Not determined
Molecular Formula:	Not determined
Molecular Weight:	Not determined

(Typical values only - consult specification sheet) N Av =
Not available, N App = Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: Direct sources of heat.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hazardous reactions: No reactivity hazards known under normal storage and use conditions. Hazardous polymerisation does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: No information available.

Skin contact: No information available. A skin sensitizer. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: No information available.

Eye contact: No information available.

Acute toxicity

Inhalation: This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist.

Solvent naphtha (petroleum), light arom. LC50 (Rat): 3670 ppm/8 hours (Method: Vapor) Magnesium

Nitrate LC50 (Rat): 23.4 mg/l/4/h (Method: Vapor)

Formaldehyde LC50 (Rat): 250 - 590 mg/cu m (Method: Vapor)

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3- one [ec no 247-500-7] and 2-methyl-2h-isothiazol-3-one [EC no. 220-239-6] (3:1) LC50 (Rat): 0.33 mg/L (Method: (inh/4h/rat - dust) Vapor)

Skin contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Mixture of: 5-chloro-2-methyl-2h-isothiazol-3- one [ec no 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) LD50 (Rabbit): 87.12 mg/kg (Method: Dermal)

Solvent naphtha (petroleum), light arom LD50 (Rat): >2000 mg/kg (Method: Dermal)

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Solvent naphtha (petroleum), light arom. LD50 (Rat): 4700 mg/kg (Method: Oral) Magnesium Nitrate
LD50 (Rat): 10760 mg/kg (Method: Oral)
Formaldehyde LD50 (Rat): 100 mg/kg (Method: Oral)
Mixture of: 5-chloro-2-methyl-2h-isothiazol-3- one [ec no 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
LD50 (Rat): 64 mg/kg (Method: Oral)

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure): This material has been classified as not a specific hazard to target organs by a single exposure.

Chronic Toxicity

Mutagenicity: This material has been classified as not a mutagen.

Carcinogenicity: This material has been classified as not a carcinogen.

Reproductive toxicity (including via lactation): This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure): This material has been classified as not a specific hazard to target organs by repeat exposure.

SECTION 12: ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information

Solvent naphtha (petroleum), light arom 48hr EC50 (Daphnia magna): >1 - 10 mg/l Solvent naphtha (petroleum), light arom 72hr IC50 (algae): >1-10 mg/l
Solvent naphtha (petroleum), light arom. 96hr LC50 (fish): >10-100 mg/l
mixture of: 5-chloro-2-methyl-2h-isothiazol-3- one [ec no 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
96hr LC50 (rainbow trout): 0.19 mg/L

Long-term aquatic hazard: No information

Ecotoxicity: No information

Persistence and degradability: No information

Bio-accumulative potential: No information

Mobility: No information

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

SECTION 15: REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants) The
Rotterdam Convention (Prior Informed Consent) Basel Convention
(Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): .

SECTION 16: OTHER INFORMATION

Reason for issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.



SAFETY DATA SHEET

Hardener B

Product Name EpiMax Pumadur –

Hazardous, NON-Dangerous Goods

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	EPIMAX TECHNOLOGIES PTY LTD
Address	23 Hargraves Place, Wetherill Park NSW 2164
Telephone	1300 721 522
Fax	(02) 9904 3207
Emergency	13 11 26
Synonym(s)	EpiMax Pumadur- Hardener B
Use(s)	Component of multi-component industrial coatings - Industrial use
SDS Date	31/03/2023

SECTION 2: HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



Signal Word

Danger

Hazard Classifications

Acute Toxicity - Inhalation - Category 4 Skin
Corrosion/Irritation - Category 2 Eye
Damage/Irritation - Category 2A Sensitisation
- Respiratory - Category 1 Sensitisation - Skin -
Category 1 Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) - Category 3 Respiratory Tract Irritation Specific Target
Organ Toxicity (Repeated Exposure) - Category 2

Hazard Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
H351	Suspected of causing cancer .
H373	May cause damage to organs through prolonged or repeated exposure.

Prevention Precautionary Statements

- P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust, fume, gas, mist, vapours or spray.
P264 Wash hands, face and all exposed skin thoroughly after handling. 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 gloves/protective clothing including eye/face protection. P284 In case of inadequate ventilation wear respiratory protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P304+P340 IF INHALED: Remove person to fresh air and keep 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.
P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention 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.
P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. P362+P364 Take off contaminated clothing and wash it before reuse

Storage Precautionary Statements

- P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

Disposal Precautionary Statement

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule:

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

SECTION 3: COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Isocyanic acid, polymethylene polyphenylene ester Ingredients determined to be Non-Hazardous	9016-87-9	25-50 % Balance
		100%

SECTION 4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin

irritation persists, call a physician.

Eye contact: Keep eye wide open while rinsing. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention.

PPE for First Aiders: Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from butyl rubber, nitrile rubber, neoprene should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. 4.2 Most important symptoms and effects, both acute and delayed. Harmful by inhalation. Irritating to eyes. Irritating to skin. Limited evidence of a carcinogenic effect. The substance has delayed effects. Harmful: possible risk of irreversible effects through inhalation. 4.3 Indication of any immediate medical attention and special treatment needed. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Combustible material.

Fire fighting further advice: On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations.

LARGE SPILLS

Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

SECTION 7: HANDLING AND STORAGE

Handling: Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin and eyes

Storage: Store at room temperature in the original container. Keep locked up or in an area accessible only to qualified or authorised persons. Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from butyl rubber, nitrile rubber, neoprene should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

RECOMMENDATIONS FOR CONSUMER USE:

RESPIRATORY PROTECTION: Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a vapor filter.

EYE PROTECTION: Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields conforming to EN166.

HAND PROTECTION: Isocyanates can harden gloves and increase the risk of their splitting. Protective gloves complying with EN 374: Viton®, Neoprene, Nitril rubber, Butyl rubber. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Remove contaminated clothing and protective equipment before entering eating areas.

OTHER PROTECTIVE EQUIPMENT: No Information.

ENGINEERING CONTROLS: At temperatures below 40°C, provide a good standard of general ventilation (not less than 5 air changes per hour). At temperatures over 40°C - and always if sprayed - exhaust ventilation is required. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

Hygiene measures: Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Base Units: Kilogram
Form: Liquid
Colour: Brown
Odour: Earthy, Musty

Solubility: Not determined
Solubility in water: Not determined
Specific Gravity: 0.107
Density: Not determined
Relative Vapour Density (air=1): Not determined
Vapour Pressure (20 °C): Not determined
Flash Point (°C): 220 °C
Flammability Limits (%): Not determined
Autoignition Temperature (°C): >500°C

Melting Point/Range (°C):	Not determined
Pour Point/Range (°C):	Not determined
Boiling Point/Range (°C):	N.D. - N.D.
Decomposition Point (°C):	Not determined
Sublimation Point (°C):	Not determined
Dropping Point (°C):	Not determined
pH:	Not determined
Viscosity:	Not determined
Surface Tension:	Not determined
Evaporation Rate (n-Butyl acetate=1):	Not determined
Partition Coefficient:	Not determined
Total VOC (g/Litre):	0
Odour Threshold:	Not determined
Explosive properties:	Not determined
Oxidising properties:	Not determined
% Volatile by Volume:	Not determined
Molecular Formula:	Not determined
Molecular Weight:	Not determined

(Typical values only - consult specification sheet) N Av =
Not available, N App = Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Conditions to avoid: Avoid temperatures above 40 °C, direct sunlight and contact with sources of heat. Do not freeze.

Incompatible materials: Keep away from oxidising agents, strongly acid or alkaline materials, as well as of amines, alcohols and water. Amines and alcohols cause exothermic reactions.

Hazardous decomposition products: In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke. Preparation reacts slowly with water resulting in evolution of CO₂. Evolution of CO₂ in closed containers causes overpressure and produces a risk of bursting.

Hazardous reactions: No reactivity hazards known under normal storage and use conditions. Polymerises at about 200°C with evolution of CO₂

SECTION 11: TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Harmful if inhaled. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition. A respiratory sensitiser. Can cause possible allergic reactions.

Skin contact: In the case of sensitisation to any of the ingredients, it is inadvisable to work with the product. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: No information available. **Eye**

contact: No information available. **Acute**

toxicity

Inhalation: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): $10.0 < LC50 \leq 20.0$ mg/L for vapours or $1.0 < LC50 \leq 5.0$ mg/L for dust and mist.

Isocyanic acid, polymethylenepolyphenylene ester LC50 (Rat): 0.9 mg/l (Method: Vapour (4 h, Aerosol. rat))

Skin contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Isocyanic acid, polymethylenepolyphenylene ester LD50 (Rat): >9400 mg/kg (Method: Dermal)

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Isocyanic acid, polymethylenepolyphenylene ester LD50 (Rat): >10000 mg/kg (Method: Oral)

Corrosion/Irritancy: Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as a Category 1 Hazard (respiratory sensitiser). Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure): This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in respiratory irritation.

Chronic Toxicity

Mutagenicity: This material has been classified as not a mutagen.

Carcinogenicity: This material has been classified as a Category 2 Hazard.

Reproductive toxicity (including via lactation): This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 Hazard.

SECTION 12: ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information

Isocyanic acid, polymethylenepolyphenylene ester 72hr IC50 (algae): 1640 mg/l Isocyanic acid, polymethylenepolyphenylene ester 96hr LC50 (fish): >1000 mg/l

Long-term aquatic hazard: No information

Ecotoxicity: No information

Persistence and degradability: No information

Bioaccumulative potential: No information

Mobility: No information

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of as hazardous waste in compliance with local and national regulations. Container hazardous when empty. Empty containers should be taken to an approved waste handling site for recycling or disposal. The product should not be allowed to enter drains, water courses or the soil.

SECTION 14: TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

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AIR TRANSPORT

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SECTION 15: REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants) The
Rotterdam Convention (Prior Informed Consent) Basel Convention
(Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

This material/constituent(s) is covered by the following requirements:

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): .

SECTION 16: OTHER INFORMATION

Reason for issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.



EpiMax SAFETY DATA SHEET

Product Name **EpiMax Pumadur – Filler C**

Hazardous, NON-Dangerous Goods

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	EPIMAX TECHNOLOGIES PTY LTD
Address	23 Hargraves Place, Wetherill Park NSW 2164
Telephone	1300 721 522
Fax	(02) 9904 3207
Emergency	13 11 26
Synonym(s)	EpiMax Pumadur- Filler C
Use(s)	Component of multi-component industrial coatings - Industrial use
SDS Date	31/03/2023

SECTION 2: HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



Signal Word

Danger

Hazard Classifications

Skin Corrosion/Irritation - Category 2 Eye
Damage/Irritation - Category 1 Sensitisation -
Skin - Category 1 Carcinogenicity - Category
1A
Specific Target Organ Toxicity (Single Exposure) - Category 1

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H350 May cause cancer .
H370 Causes damage to organs.

**Product Name: EpiMax Pumadur
Filler C**

Version: 2

20/2/2023

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Prevention Precautionary Statements

- P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood. P260Do not breathe dust, fume, gas, mist, vapours or spray.
P264 Wash hands, face and all exposed skin thoroughly after handling. P270Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace. P280 In case of inadequate ventilation wear respiratory protection.

Response Precautionary Statements

- P101 If medical advice is needed, have product container or label at hand.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+P311 IF exposed: Call a POISON CENTRE or doctor/physician.
P308+P311 IF exposed or concerned: Call a POISON CENTRE/doctor (insert appropriate source of emergency medical advice).
P310 Immediately call a POISON CENTER/doctor/insert appropriate source of emergency medical advice.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse

Storage Precautionary Statement

- P405 Store locked up.

Disposal Precautionary Statement

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule:

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

SECTION 3: COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Quartz (SiO ₂)	14808-60-7	50-75 %
Cement, portland, chemicals	65997-15-1	10-25 %
Limestone	1317-65-3	2.5-10 %
Calcium hydroxide (Ca(OH) ₂)	1305-62-0	2.5-10 %
Ingredients determined to be Non-Hazardous		Balance
		100%

SECTION 4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Move to fresh air. Consult a physician after significant exposure.

Skin Contact: Use a mild soap if available. Wash off with soap and plenty of water.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses. If eye irritation persists, consult a specialist.

Ingestion: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Never give anything by mouth to an unconscious person.

PPE for First Aiders: Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Effects may be delayed. Can cause corneal burns. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.4.2 Most important symptoms and effects, both acute and delayed. Harmful by inhalation.4.3 Indication of any immediate medical attention and special treatment needed. No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Combustible material.

Fire fighting further advice: On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Pick up and transfer to properly labelled containers. No special environmental precautions required. After cleaning, flush away traces with water.

LARGE SPILLS

Pick up and transfer to properly labelled containers. No special environmental precautions required. After cleaning, flush away traces with water.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

SECTION 7: HANDLING AND STORAGE

Handling: Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid dust formation. Protect from moisture.

Storage: Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid dust formation. Protect from moisture.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	ppm	TWA mg/m ³	ppm	STEL mg/m ³	NOTICES
Calcium hydroxide	-	5	-	-	-
Portland cement	-	10	-	-	-
Quartz (respirable dust)	-	0.05	-	-	Carc. 1A
Silica Crystalline - Quartz (respirable dust)	-	0.05	-	-	Carc. 1A

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask.

Personal Protection Equipment: OVERALLS, GLOVES, SAFETY GLASSES, DUST MASK.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear overalls, gloves, safety glasses, dust mask. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

RECOMMENDATIONS FOR CONSUMER USE:

RESPIRATORY PROTECTION: Effective dust mask. EYE PROTECTION: Safety glasses with side-shields. HAND PROTECTION: Protective gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use. OTHER PROTECTIVE EQUIPMENT: No Information. ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

Hygiene measures: Wash hands before breaks and at the end of workday. Do not breathe dust. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Base Units:	Kilogram
Form:	Solid
Colour:	Granules/powder mix
Odour:	Not determined

Solubility:	Not determined
Solubility in water:	Not Determined
Specific Gravity:	0.115
Density:	Not determined
Relative Vapour Density (air=1):	Not determined
Vapour Pressure (20 °C):	Not determined
Flash Point (°C):	999
Flammability Limits (%):	Not determined
Autoignition Temperature (°C):	Not determined
Melting Point/Range (°C):	Not determined
Pour Point/Range (°C):	Not determined
Boiling Point/Range (°C):	N.D. - N.D.
Decomposition Point (°C):	Not determined
Sublimation Point (°C):	Not determined
Dropping Point (°C):	Not determined
pH:	~11 - 14
Viscosity:	Not Determined
Surface Tension:	Not Determined
Evaporation Rate (n-Butyl acetate=1):	Not Determined Partition
Coefficient:	Not Determined
Total VOC (g/Litre):	0
Odour Threshold:	Not Determined
Explosive properties:	Not Determined
Oxidising properties:	Not Determined
% Volatile by Volume:	Not Determined
Molecular Formula:	Not Determined
Molecular Weight:	Not Determined

(Typical values only - consult specification sheet) N Av =
Not available, N App = Not applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.

Conditions to avoid: No Information

Incompatible materials: Do not store near acids. Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known. Hydrogen fluoride

Hazardous reactions: No reactivity hazards known under normal storage and use conditions. Hazardous polymerisation does not occur.

SECTION 11: TOCIXOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

Skin contact: A skin sensitizer. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: A severe eye irritant. Corrosive to eyes: contact can cause corneal burns. Contamination of eyes can result in permanent injury. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Acute toxicity

Inhalation: This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC50 > 5.0 mg/L for dust.

Skin contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw

quartz (silicon dioxide) LD50 (Rat): >2000 mg/kg (Method: Oral) calcium hydroxide LD50 (Rat): 7340 mg/kg (Method: Oral)

Corrosion/Irritancy: Eye: this material has been classified as a Category 1 Hazard (irreversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).

Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure): This material has been classified as a Category 1 Hazard.

Chronic Toxicity

Mutagenicity: This material has been classified as not a mutagen.

Carcinogenicity: This material has been classified as a Category 1A Hazard.

Reproductive toxicity (including via lactation): This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure): This material has been classified as not a specific hazard to target organs by repeat exposure.

SECTION 12: ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: No information **Long-term**

aquatic hazard: No information **Ecotoxicity:** No

information

Persistence and degradability: No information

Bioaccumulative potential: No information

Mobility: No information

SECTION 13: DISPOSAL CONSIDERATIONS

If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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