

MEGAPOXY PM

GAP FILLING EPOXY PASTE ADHESIVE FOR CIVIL ENGINEERING USE

DESCRIPTION MEGAPOXY PM is specially formulated non-sag epoxy filling paste and adhesive. This easy to use two-part epoxy product sets after mixing with excellent properties ideally suited for the following applications.

| USES | BONDING | FILLING AND REPAIR |
|------|--|---|
| | <ul style="list-style-type: none"> • Precast concrete articles • Grouting bolts • Natural stones • Bricks and ceramics • Metals | <ul style="list-style-type: none"> • Concrete Pipes and Tanks • Fibreglass articles • Concrete floors and stairs • Concrete columns • Insitu formed concrete |

| ADVANTAGES | |
|------------|--|
| | <ul style="list-style-type: none"> • Simple 1:1 mix ratio • Creamy texture, blends easily • Non sag on vertical surfaces • Rapid setting • Adheres and cures under adverse conditions (cold and damp) • Good strength retention after prolonged immersion in water • Tensile and compressive strength superior to concrete • Very good chemical resistance |

| PRODUCT SPECIFICATION | PART "A" | PART "B" |
|-----------------------|-------------------|-------------------|
| CONSISTENCY: | Thixotropic paste | Thixotropic paste |
| COLOUR: | White | Black or Neutral |
| FLASH POINT: | Above 100°C | Above 100°C |

| SURFACE PREPARATION | METALS: |
|---------------------|--|
| | Should be grit blasted to clean surface. Mechanically abraded and degreased. Wire brushing is not entirely satisfactory and gives minimal adhesion only. |
| | PAINTED SURFACES: A proprietary brand paint stripper should be used. Concrete - the surface may be either flame cleaned or mechanically abraded. |

| PROCESSING DATA | MIXING RATIO: | 1 part resin to 1 part hardener by volume |
|-----------------|----------------------------------|---|
| | MIXING: | Mix until uniform grey or white |
| | WORKING LIFE AT 25°C: | 45 minutes |
| | MINIMUM APPLICATION TEMPERATURE: | 10°C |
| | MINIMUM CURE TIME: | 12 hours at 25°C |
| | FULL CURE TIME: | 4 days at 25°C |



IMPORTANT INFORMATION It is essential that the correct mixing ratio be used and that the Part "A" and Part "B" are thoroughly mixed together before use. Inaccuracies and poor mixing will result in lower physical properties of the cured system and, if the error is sufficiently large, the system may not cure satisfactorily and discolour on ageing.

| | | |
|-----------------------------------|----------------------------------|--------------------------------|
| CURED PROPERTIES (TYPICAL) | MAXIMUM OPERATING TEMPERATURE: | 70°C |
| | DENSITY: | 1.45 kg per litre |
| | TENSILE STRENGTH: | 25 MPA |
| | TENSILE BOND STRENGTH: | 10 MPA |
| | COMPRESSIVE STRENGTH: | 80 MPA |
| | FLEXURAL STRENGTH: | 15 MPA |
| | COEFFICIENT OF LINEAR EXPANSION: | 60 MM/MM/°C X 10 ⁻⁶ |

Properly mixed Megapoxy PM will not stain or discolour white or light coloured marble and ceramics.

AVAILABILITY MEGAPOXY PM is available in 4 litre & 20 litre kits. Shelf life of unopened kits is 2 years minimum. Product should be stored in cool dry store.

CLEANING Uncured Megapoxy PM can be removed with Megapoxy Thinners.

PRECAUTIONS Avoid prolonged contact with skin. Wash affected areas with soap and warm water. For further information refer to Bulletin No.100 and Safety Data Sheet for Megapoxy PM.



Safety Data Sheet

Megapoxy

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Megapoxy PM - Part A

Recommended use: Adhesive for civil engineering use

Supplier: Vivacity Engineering Pty Ltd
ABN: 78 305 545 664
Street Address: 3 Sefton Road
Thornleigh
NSW 2120
Australia
Telephone: +61 2 9875 3044
Facsimile: +61 2 9875 3665

Emergency Telephone number: +61 2 9875 3044

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word

Warning

Hazard Classifications

Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A
Sensitisation - Skin - Category 1
Chronic Hazard to the Aquatic Environment - Category 2

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray..
P264 Wash hands, face and all exposed skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

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 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. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

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P362

Take off contaminated clothing and wash before reuse.

Storage Precautionary Statement

Not allocated

Disposal Precautionary Statement

Not allocated

Poison Schedule: S5. Caution

DANGEROUS GOOD CLASSIFICATION

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".

Dangerous Goods Class: 9

3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS NO | PROPORTION |
|--|------------|------------|
| Bisphenol-A epoxy resin | 25068-38-6 | 30-60 % |
| Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | 68609-97-2 | 1-9 % |
| Ingredients determined to be Non-Hazardous | | Balance |

4. FIRST AID MEASURES

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

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazchem Code: •3Z

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

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Fire fighting further advice: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 47

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

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.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, GLOVES, SAFETY GLASSES.

Wear safety shoes, gloves, safety glasses. 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.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet

Megapoxy

Form: Paste
Colour: White

Solubility: Insoluble in water
Specific Gravity (20 °C): 1.40-1.50 @ 25 Deg C
Relative Vapour Density (air=1): >1
Vapour Pressure (20 °C): <0.01 Pa
Flash Point (°C): >200 Deg C
Boiling Point/Range (°C): >200 Deg C
Decomposition Point (°C): >200 Deg C
Total VOC (g/Litre): Nil
% Volatile by Volume: Nil

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

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: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation. A skin sensitiser. 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: An eye irritant. 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 non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

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 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 non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF \geq 500 and/or log $K_{ow} \geq$ 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

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".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
- (b) IBCs.

Safety Data Sheet

Megapoxy



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III
Hazchem Code: •3Z
Emergency Response Guide No: 47

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

Safety Data Sheet

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This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives

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).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

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| 16. OTHER INFORMATION |
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Reason for issue: First issue

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

Megapoxy

Hazardous Chemical, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Megapoxy PM - Part B**

Recommended use: Adhesive for civil engineering use

Supplier: Vivacity Engineering Pty Ltd
ABN: 78 305 545 664
Street Address: 3 Sefton Road
Thornleigh
NSW 2120
Australia
Telephone: +61 2 9875 3044
Facsimile: +61 2 9875 3665

Emergency Telephone number: **+61 2 9875 3044**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word

Danger

Hazard Classifications

Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 1
Sensitisation - Skin - Category 1A

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray..
P264 Wash hands, face and all exposed skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response Precautionary Statements

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. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see supplemental first aid instructions on this product label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

Safety Data Sheet

Megapoxy

Storage Precautionary Statement

Not allocated

Disposal Precautionary Statement

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

Poison Schedule: S5. Caution

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".

3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS NO | PROPORTION |
|--|-------------|------------|
| Fatty acids, C18-unsaturated, dimers, polymers with tall oil fatty acids and tetraethylene pentamine | 103758-98-1 | 30-60 % |
| Ingredients determined to be Non-Hazardous | | Balance |

4. FIRST AID MEASURES

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

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be held open. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically. Effects may be delayed. Can cause corneal burns.

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.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

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.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, GLOVES, SAFETY GLASSES.

Wear safety shoes, gloves, safety glasses. 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.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste
Colour: Natural / Grey

Solubility: Partially soluble in water
Specific Gravity (20 °C): 1.30-1.40 @ 25 Deg C
Relative Vapour Density (air=1): >1
Vapour Pressure (20 °C): <0.01 Pa

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|---------------------------|------------|
| Flash Point (°C): | >200 Deg C |
| Boiling Point/Range (°C): | >200 Deg C |
| Decomposition Point (°C): | >200 Deg C |
| Total VOC (g/Litre): | Nil |
| % Volatile by Volume: | Nil |

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

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

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: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation. A skin sensitiser. 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 non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

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 1A Hazard (skin sensitiser).

Aspiration hazard: This material has been classified as non-hazardous.

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Megapoxy

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log K_{ow} < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

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.

15. REGULATORY INFORMATION

Safety Data Sheet

Megapoxy

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).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

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| 16. OTHER INFORMATION |
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Reason for issue: First issue

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.

MEGAPOXY RMF

GAP FILLING EPOXY PASTE ADHESIVE FOR CIVIL ENGINEERING USE

MEGAPOXY RMF is specially formulated non-sag epoxy filling paste and adhesive. This easy to use two-part epoxy product sets after mixing with excellent properties ideally suited for the following applications.

BONDING

Precast concrete articles
Grouting bolts
Natural stones
Bricks and ceramics
Metals

FILLING AND REPAIR

Concrete Pipes and Tanks
Fibreglass articles
Concrete floors and stairs
Concrete columns
Insitu formed concrete

ADVANTAGES

Simple 1 : 1 mix ratio
Creamy texture, blends easily
Non sag on vertical surfaces
Rapid setting
Adheres and cures under adverse conditions (cold and damp)
Good strength retention after prolonged immersion in water
Tensile and compressive strength superior to concrete
Very good chemical resistance

PRODUCT SPECIFICATION

| | <u>PART "A"</u> | <u>PART "B"</u> |
|-------------|-------------------|-------------------|
| Consistency | Thixotropic paste | Thixotropic paste |
| Colour | White | Black or Neutral |
| Flash Point | Above 100°C | Above 100°C |



VIVACITY ENGINEERING PTY. LTD.

3 Sefton Road, Thornleigh, NSW 2120 • P.O. Box 71, Hornsby, NSW Australia, 1630
Telephone +61-2-9875 3044 Fax +61-2-9875 3665 email:info@megapoxy.com
www.megapoxy.com A.B.N. 78 305 545 664

-2-

SURFACE PREPARATION

METALS Should be grit blasted to clean surface.
Mechanically abraded and degreased.
Wire brushing is not entirely satisfactory and gives minimal adhesion only.

CONCRETE Should be free from grease and oil. If necessary, clean with industrial grade degreasing agent. Once clean, steps must be taken to remove laitence; this is best done by using :
Mechanical abrasion
Acid etching - concentrated hydrochloric acid (muriatic acid) 1:1 with water, and spreading 0.5 litre of this mixture to each square metre. After the reaction has ceased (about 10 minutes) the area is thoroughly washed and scrubbed with a stiff bristled broom to remove loose sand and allowed to dry for 24 hours.

PAINTED SURFACES :

Metals - a proprietary brand paint stripper should be used.
Concrete - the surface may be either flame cleaned or mechanically abraded.

PROCESSING DATA

Mixing Ratio : 1 part resin to 1 part hardener by volume
Mixing : Mix until uniform grey or white
Working life at 25°C : 10 minutes
Minimum application temperature : 5°C
Minimum Cure Time : 2 hours at 25°C
Full Cure Time : 2days at 25°C

IMPORTANT INFORMATION

It is essential that the correct mixing ratio be used and that the Part "A" and Part "B" are thoroughly mixed together before use. Inaccuracies

and poor mixing will result in lower physical properties of the cured system and, if the error is sufficiently large, the system may not cure satisfactorily and discolour on ageing.

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-3-

CURED PROPERTIES (TYPICAL)

| | |
|---------------------------------|----------------------------------|
| Maximum operating temperature | : 70°C |
| Density | : 1.45 kg per litre |
| Tensile Strength | : 25 MPa |
| Tensile Bond Strength | : 10 MPa |
| Compressive Strength | : 80 MPa |
| Flexural Strength | : 15 MPa |
| Coefficient of linear expansion | : 60 mm/mm/°C x 10 ⁻⁶ |

Properly mixed Megapoxy RMF not stain or discolour white or light coloured marble and ceramics.

AVAILABILITY

MEGAPOXY RMF available in 4 litre & 20 litre kits. Shelf life of unopened kits is 2 years minimum. Product should be stored in cool dry store.

CLEANING

Uncured Megapoxy PM can be removed with Megapoxy Thinners.

PRECAUTIONS

Avoid prolonged contact with skin. Wash affected areas with soap and warm water. For further information refer to Bulletin No.100 and Safety Data Sheet for Megapoxy RMF.

Material Safety Data Sheet

| | |
|-------------------|---|
| Section 1: | Identification of Product & Supplier |
|-------------------|---|

Product: Megapoxy RMF - Part A
(Use in conjunction with Megapoxy RMF - Part B)

Classification: Hazardous according to criteria of Worksafe Australia

Uses: Adhesive for civil engineering use, tiling, timber restoration etc.

Supplier: Vivacity Engineering Pty Ltd

ABN: 78 305 545 664

Street Address: 3 Sefton Road
Thornleigh, NSW 2120, Australia

Telephone: 61 2 9875 3044

Facsimile: 61 2 9875 3665

Emergency Phone: 61 2 9484 7958 or 0418 112 515

e mail: info@megapoxy.com

| | |
|-------------------|-------------------------------|
| Section 2: | Hazards Identification |
|-------------------|-------------------------------|

Hazard Category: Xn Harmful, Xi Irritant

Risk Phrases: R21/22 Harmful in contact with skin and if swallowed
R43 May cause sensitisation by skin contact.

D.G. Class: Not classified as dangerous goods

Subsidiary Risk: Nil

Poison Schedule: S 5

This product is a Schedule Poison S 5 and must be stored, maintained and used in accordance with the relevant regulation.

| | |
|-------------------|---|
| Section 3: | Composition & Information on ingredients |
|-------------------|---|

| Ingredients: | Name | Cas No. | Proportion |
|--------------|---|------------|------------|
| | Bisphenol A epoxy resin | 25068-38-6 | High |
| | Aliphatic Glycidyl Ether | 68609-97-2 | Low |
| | Other ingredients determined not to be hazardous | | To 100 % |

V.High >60, High 30 - 60, Med 10 - 29, Low 1 - 9, V.Low <1

All the constituents of this product are listed on the Australian inventory of Chemical Substances (AICS) and National Registration Authority (NRA) approved active constituents.

| | |
|-------------------|---------------------------|
| Section 4: | First Aid Measures |
|-------------------|---------------------------|

Poison Information Centres in each State capital can provide additional assistance for scheduled poisons. (Phone Australia 131 126)

Megapoxy RMF - Part A

Ingestion: If swallowed do not induce vomiting. Rinse mouth with water, give glass of water and seek medical attention.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin contact: Remove contaminated clothing and footwear. Wash skin thoroughly with water. If swelling, redness, blistering or irritation occurs seek medical attention.

Inhalation: Remove victim from exposure to fresh air. If breathing difficulty, apply artificial respiration and seek medical attention.

Note to Physician: Treat the patient symptomatically.

| | |
|-------------------|-------------------------------|
| Section 5: | Fire Fighting Measures |
|-------------------|-------------------------------|

Extinguishing media: Water, Foam, Dry chemical powder, Carbon dioxide.

Specific Hazards: The material is stable under normal conditions. Hazardous polymerisation can occur on heating. On decomposition gives off carbon dioxide, carbon monoxide and other gases. Incompatible with alkalies, acids and strong oxidizers.

Fire Fighters: Wear positive pressure, self-contained breathing apparatus and full protective clothing.

| | |
|-------------------|------------------------------------|
| Section 6: | Accidental Release Measures |
|-------------------|------------------------------------|

Small Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled containers for disposal as per local council statutory codes.

Large Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled containers for disposal as per local council statutory codes. If contamination of crops, waterways, drains or sewerage has occurred, advise Emergency Services or State Department of Agriculture.

| | |
|-------------------|-----------------------------|
| Section 7: | Handling and Storage |
|-------------------|-----------------------------|

Storage: Store in the closed, original container in a cool ventilated area. Keep containers tightly closed when not in use. Keep away from explosives, food, oxidising agents and organic peroxides. This product is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the

relevant regulations.

| | |
|-------------------|--|
| Section 8: | Exposure Controls & Personal Protection |
|-------------------|--|

Exposure Limits: No value assigned for this specific product by the National Occupational and Safety Commission (Worksafe Australia). However, supplier recommended Hygiene Standard as under;

TWA STEL Carcinogen Notices

| Material | TWA | | STEL | | Notices |
|--------------------------|------|-------|------|-------|---------|
| | ppm | mg/m3 | ppm | mg/m3 | |
| Bisphenol A resin | N/E* | N/E* | N/E* | N/E* | - |
| Aliphatic glycidyl ether | N/E* | N/E* | N/E* | N/E* | - |

N/E* - No Exposure Standard has been established for this product.

Eng. Controls: Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as reasonably practicable.

Personal Protection: Use overalls, safety shoes, safety goggles, rubber or chemical resistance gloves and respirator if required.

Manufacturing, Packaging & Transport: Avoid skin and eye contact and the inhalation of vapour. Wear overalls, safety goggles and impervious gloves. Available information suggests that the gloves made from PVC should be suitable for intermittent contact. However due to variations in glove construction and local conditions, the final assessment should be made by the user. If inhalation risk exists, wear organic vapour respirator meeting requirements of AS/NZS 1715 and 1716. Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Preparations & use of product: Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale mist or vapours. After each day's use, wash gloves, safety goggles and all the contaminated clothing.

| | |
|-------------------|---|
| Section 9: | Physical & Chemical Properties |
|-------------------|---|

Appearance : White paste
Solubility : Insoluble in water
Specific Gravity : 1.45 - 1.50
Boiling Point : More than 200 deg. C

Megapoxy RMF - Part A

| | | |
|----------------------------|---|------------------------------------|
| Rel.Vapour Density (air=1) | : | > 1 |
| Melting Range | : | Not established |
| Vapour Pressure (20o C) | : | Less than 0.01 Pa |
| Decomposition Temp.(o C) | : | More than 200 deg. C |
| Flash Point (o C) | : | More than 200 deg. C (ASTM D 93) |
| Flammability Limits (%) | : | Not established |
| Ph | : | Not applicable |
| Autoignition Temp. (o C) | : | Not established |
| % Volatile by Volume | : | Nil |

(All above values are Typical Values only)

| | |
|--------------------|-----------------------------------|
| Section 10: | Stability & Reactivity |
|--------------------|-----------------------------------|

Stability: The product is stable under normal conditions and use.

| | |
|--------------------|----------------------------------|
| Section 11: | Toxicological Information |
|--------------------|----------------------------------|

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

Acute Effects: Ingestion: Harmful if swallowed. May cause gastrointestinal discomfort and irritation.

Eye: Brief contact may cause mild irritation to eyes.

Skin: Mild irritant and poorly absorbed through the skin. Prolonged and repeated contact may cause sever irritation and/or dermatitis

Inhaled: Not hazardous at ambient temperatures. Vapours generated at elevated temperatures or when inhaled repeatedly may cause irritation to nose, throat and respiratory tract.

Long Term Effects: Repeated skin contact and inhalation may result in sensitisation in some individuals. May cause allergic reaction, dermatitis or asthma like symptoms. Follow good working practice. Avoid ingestion, inhalation, eye and skin contact. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.

Acute & Chronic Negative in a battery of mutagenicity assays.

Toxicity: No evidence of carcinogenicity was observed in long term studies of rats.

No developmental nor reproductive effects in rat and rabbit.

Acceptable Daily Intake (ADI) for humans is 0.01 mg/kg/day.

| | |
|--------------------|-------------------------------|
| Section 12: | Ecological Information |
|--------------------|-------------------------------|

Avoid contamination of drains, sewerage, creeks and waterways.

Not toxic to aquatic organisms

| | |
|--------------------|-------------------------------|
| Section 13: | Disposal Consideration |
|--------------------|-------------------------------|

Dispose all empty containers as per State & Council Regulation. Do not dispose near waterways, vegetation and tree roots. Empty containers and product should not be burned.

| | |
|--------------------|------------------------------|
| Section 14: | Transport Information |
|--------------------|------------------------------|

| | | |
|------------------------|---|--|
| UN. No. | : | Not Allocated |
| Shipping Name | : | Not Applicable |
| Class | : | Not classified as dangerous goods |
| Subsidiary Risk | : | Nil |
| Packaging Group | : | Not Applicable |
| Hazchem Code | : | Not Applicable |
| EPG | : | Not Applicable |
| Segregation | : | Not to be loaded with explosives, oxidising agents or organic peroxides. |

For road, marine and air transport this product is not classified as dangerous goods within the context of National and International Transport Regulation.

| | |
|--------------------|-------------------------------|
| Section 15: | Regulatory Information |
|--------------------|-------------------------------|

The National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC : 10005 (1999)].

The National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC : 1015 (2001)].

| | |
|--------------------|--------------------------|
| Section 16: | Other information |
|--------------------|--------------------------|

| | | |
|----------------------------|---|--------------------|
| Date of Preparation | : | 01.07.02 |
| Date of Revision | : | 01.07.07 |
| Reasons for Issue | : | Five yearly update |

MSDS's are updated frequently. Please ensure you have the current copy.

This MSDS summarises at the date of issue our best knowledge of health and safety hazard information of the product, and in particular how to handle and use the product in the workplace. Since Vivacity Engineering Pty Ltd cannot anticipate or control the conditions under which the product may be used each user must, prior to usage, review this MSDS in the context to use and handling of the product in the workplace.

Megapoxy RMF - Part A

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Vivacity Engineering Pty Ltd. Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Approved By: Frank Taylor

Material Safety Data Sheet

| | |
|-------------------|---|
| Section 1: | Identification of Product & Supplier |
|-------------------|---|

Product: Megapoxy RMF - Part B
(Use in conjunction with Megapoxy RMF - Part A)

Classification: Hazardous according to criteria of Worksafe Australia

Uses: Adhesive for civil engineering use, tiling etc.

Supplier: Vivacity Engineering Pty Ltd

ABN: 78 305 545 664

Street Address: 3 Sefton Road
Thornleigh, NSW 2120, Australia

Telephone: 61 2 9875 3044

Facsimile: 61 2 9875 3665

Emergency Phone: As above or After Hours 61 2 9484 7958 or 0418 112 515

e mail: info@megapoxy.com

| | |
|-------------------|-------------------------------|
| Section 2: | Hazards Identification |
|-------------------|-------------------------------|

Hazard Category: Xn Harmful, Xi irritant

Risk Phrases: R21/22 Harmful in contact with skin and if swallowed
R43 May cause sensitisation by skin contact.

D.G. Class: Not classified as dangerous goods

Subsidiary Risk: Nil

Poison Schedule: S 5

This product is a Schedule Poison S 5 and must be stored, maintained and used in accordance with the relevant regulation.

| | |
|-------------------|---|
| Section 3: | Composition & Information on ingredients |
|-------------------|---|

| Ingredients: | Name | Cas No. | Proportion |
|--------------|--|------------|------------|
| | Mercaptan Polymer | 72244-98-5 | Med |
| | Polyaminoamide | 68082-29-1 | High |
| | Other ingredients determined not to be hazardous | | To 100 % |

V.High >60, High 30 - 60, Med 10 - 29, Low 1 - 9, V.Low <1

All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS) and National Registration Authority (NRA) approved active constituents.

| | |
|-------------------|---------------------------|
| Section 4: | First Aid Measures |
|-------------------|---------------------------|

Poison Information Centres in each State capital can provide additional assistance for scheduled poisons. (Phone Australia 131 126)

Megapoxy RMF - Part B

Ingestion: If swallowed do not induce vomiting. Rinse mouth with water, give glass of water and seek medical attention.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin contact: Remove contaminated clothing and footwear. Wash skin thoroughly with water. If swelling, redness, blistering or irritation occurs seek medical attention.

Inhalation: Remove victim from exposure to fresh air. If breathing difficulty, apply artificial respiration and seek medical attention.

Note to Physician: Treat the patient symptomatically.

| | |
|-------------------|-------------------------------|
| Section 5: | Fire Fighting Measures |
|-------------------|-------------------------------|

Extinguishing media: Water, Foam, Dry chemical powder, Carbon dioxide.

Specific Hazards: The material is stable under normal conditions. Hazardous polymerisation can occur on heating. On decomposition gives off carbon dioxide, carbon monoxide, oxides of nitrogen, volatile amines and ammonia. Wear full protective clothing.

Fire Fighters: Wear positive pressure, self-contained breathing apparatus and full protective clothing.

| | |
|-------------------|------------------------------------|
| Section 6: | Accidental Release Measures |
|-------------------|------------------------------------|

Small Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled containers for disposal as per local council statutory codes.

Large Spills: Shut off all possible ignition sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and waterways. Collect and seal in properly labelled containers for disposal as per local council statutory codes. If contamination of crops, waterways, drains or sewerage has occurred, advise Emergency Services or State Department of Agriculture.

| | |
|-------------------|-----------------------------|
| Section 7: | Handling and Storage |
|-------------------|-----------------------------|

Storage: Store in the closed, original container in a cool ventilated area. Keep containers tightly closed when not in use. Keep away from explosives, food, oxidising agents and organic peroxides. This product is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the

relevant regulations. Avoid from physical damage.

| | |
|-------------------|--|
| Section 8: | Exposure Controls & Personal Protection |
|-------------------|--|

Exposure Limits: No value assigned for this specific product by the National Occupational and Safety Commission (Worksafe Australia). However, supplier recommended Hygiene Standard as under;

TWA STEL Carcinogen Notices

| Material | TWA | | STEL | | Notices |
|-------------------|------|-------------------|------|-------------------|---------|
| | ppm | mg/m ³ | ppm | mg/m ³ | |
| Mercaptan Polymer | N/E* | N/E* | N/E* | N/E* | - |
| Polyaminoamide | N/E* | N/E* | N/E* | N/E* | |

N/E* - No Exposure Standard has been established for this product.

Eng. Controls: Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as reasonably practicable.

Personal Protection: Use overalls, safety shoes, safety goggles, rubber or chemical resistance gloves and respirator if required.

Manufacturing, Packaging & Transport: Avoid skin and eye contact and the inhalation of vapour. Wear overalls, safety goggles and impervious gloves. Available information suggests that the gloves made from PVC should be suitable for intermittent contact. However due to variations in glove construction and local conditions, the final assessment should be made by the user. If inhalation risk exists, wear organic vapour respirator meeting requirements of AS/NZS 1715 and 1716. Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Preparations & use of product: Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale mist or vapours. After each day's use, wash gloves, safety goggles and all the contaminated clothing.

| | |
|-------------------|---|
| Section 9: | Physical & Chemical Properties |
|-------------------|---|

| | |
|------------------|------------------------------|
| Appearance | : Buff/Dark grey paste |
| Solubility | : Partially soluble in water |
| Specific Gravity | : 1.48 - 1.52 @ 25 deg. C |
| Boiling Point | : More than 200 deg. C |

Megapoxy RMF - Part B

| | |
|------------------------------|------------------------------------|
| Rel.Vapour Density (air=1) : | > 1 |
| Melting Range : | Not established |
| Vapour Pressure (20o C) : | Less than 0.01 Pa |
| Decomposition Temp.(o C) : | More than 200 deg. C |
| Flash Point (o C) : | More than 200 deg. C (ASTM D 93) |
| Flammability Limits (%) : | Not established |
| Ph : | Not applicable |
| Autoignition Temp. (o C) : | Not available |
| % Volatile by Volume : | Nil |

(All above values are Typical Values only)

| | |
|--------------------|-----------------------------------|
| Section 10: | Stability & Reactivity |
|--------------------|-----------------------------------|

Stability: The product is stable under normal conditions and use.

| | |
|--------------------|----------------------------------|
| Section 11: | Toxicological Information |
|--------------------|----------------------------------|

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

Acute Effects: **Ingestion:** Harmfull if swallowed. May cause gastrointestinal discomfort and irritation.

Eye: Brief contact may cause mild irritation to eyes.

Skin: Mild irritant and poorly absorbed through the skin. Prolonged and repeated contact may cause sever irritation and/or dermatitis

Inhaled: Not hazardous at ambient temperatures. Vapours generated at elevated temperatures or when inhaled repeatedly may cause irritation to nose, throat and respiratory tract.

Long Term Effects: Repeated skin contact and inhalation may result in sensitisation in some individuals. May cause allergic reaction, dermatitis or asthma like symptoms. Follow good working practice. Avoid ingestion, inhalation, eye and skin contact. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.

Acute & Chronic Negative in a battery of mutagenicity assays.

Toxicity: No evidence of carcinogenicity was observed in long term studies of rats.

No developmental nor reproductive effects in rat and rabbit.

Acceptable Daily Intake (ADI) for humans is 0.01 mg/kg/day.

| | |
|--------------------|-------------------------------|
| Section 12: | Ecological Information |
|--------------------|-------------------------------|

Avoid contamination of drains, sewerage, creeks and waterways.

Megapoxy RMF - Part B

Product may be toxic to some aquatic organisms.

| | |
|--------------------|-------------------------------|
| Section 13: | Disposal Consideration |
|--------------------|-------------------------------|

Dispose all empty containers as per State & Council Regulation. Do not dispose near waterways, vegetation and tree roots. Empty containers and product should not be burned.

| | |
|--------------------|------------------------------|
| Section 14: | Transport Information |
|--------------------|------------------------------|

| | | |
|-----------------|---|--|
| UN. No. | : | Not Applicable |
| Shipping Name | : | Not Applicable |
| Class | : | Not classified as dangerous goods |
| Subsidiary Risk | : | Not Applicable |
| Packaging Group | : | Not Applicable |
| Hazchem Code | : | Not Applicable |
| EPG | : | Not Applicable |
| Segregation | : | Not to be loaded with explosives, oxidising agents or organic peroxides. |

For road, marine and air transport this product is not classified as dangerous goods within the context of National and International Transport Regulation.

| | |
|--------------------|-------------------------------|
| Section 15: | Regulatory Information |
|--------------------|-------------------------------|

The National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC : 10005 (1999)].

The National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC : 1015 (2001)].

| | |
|--------------------|--------------------------|
| Section 16: | Other information |
|--------------------|--------------------------|

| | | |
|---------------------|---|--------------------|
| Date of Preparation | : | 01.07.02 |
| Date of Revision | : | 01.07.07 |
| Reasons for Issue | : | Five yearly update |

MSDS's are updated frequently. Please ensure you have the current copy.

This MSDS summarises at the date of issue our best knowledge of health and safety hazard information of the product, and in particular how to handle and use the product in the workplace. Since Vivacity Engineering Pty Ltd cannot anticipate or control the conditions under which the product may be used each user must, prior to usage, review this MSDS in the context to use and handling of the product in the workplace.

Megapoxy RMF - Part B

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Vivacity Engineering Pty Ltd. Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.

Approved By: Frank Taylor

MEGAPOXY PF

RAPID SET EPOXY PASTE ADHESIVE FOR CIVIL ENGINEERING APPLICATIONS

DESCRIPTION Megapoxy PF is a rapid set epoxy adhesive which sets in seven minutes and attains more than half its ultimate strength within 15 minutes of mixing. Megapoxy PF “hardens-as-you-hold-it” for immediate on the spot emergency repairs to tanks, pipes, machinery, concrete structures etc.

- ADVANTAGES**
- Smooth and easily workable
 - Simple 1:1 mix ratio
 - Creamy texture, blends easily
 - Non sag on vertical surfaces or overhead surface
 - Sets in 3 minutes at 25°C - 90% cure within 1 hour at 25°C
 - Very high strength permanent bonds
 - Tensile and Compressive Strengths superior to concrete
 - Excellent chemical resistance
 - Can be machined after 30 minutes cure at 25°C
 - Properly mixed Megapoxy PF will not stain or discolour white or light coloured marble and ceramics.

| PRODUCT SPECIFICATION | <u>PART “A”</u> | <u>PART “B”</u> |
|-----------------------|-------------------|--------------------|
| Consistency: | Thixotropic paste | Thixotropic paste |
| Colour: | White | White or Dark Grey |
| Flash Point: | Above 100°C | Above 100°C |

| | | |
|-----------------|----------------------------------|--------------------------------|
| PROCESSING DATA | Mixing Ratio: | 1 Part A to 1 Part B by volume |
| | Mixing: | Mix until uniform in colour |
| | Working Life at 25°C: | 3 minutes |
| | Minimum Application Temperature: | 10°C |
| | Minimum Cure Time: | 1 hour at 25°C |
| | Full Cure Time: | 2 hours at 25°C |

| | | |
|----------------------------|------------------------------|--------|
| CURED PROPERTIES (TYPICAL) | Maximum Service Temperature: | 70°C |
| | Tensile Strength: | 25 MPa |
| | Tensile Bond Strength: | 15 MPa |
| | Compressive Strength: | 65 MPa |

AVAILABILITY MEGAPOXY PF is available in 4lt & 20 litre kits. Shelf life of unopened kits is 2 years minimum. Product should be stored in cool dry store.

CLEANING Uncured Megapoxy PF can be removed with Megapoxy Thinners.

PRECAUTIONS Avoid prolonged contact with skin. Wash affected areas with soap and warm water. For further information refer Safety Data Sheet for Megapoxy PF.



Safety Data Sheet

Megapoxy

Hazardous Chemical, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Megapoxy PF - Part A

Recommended use: Adhesive for civil engineering use

Supplier: Vivacity Engineering Pty Ltd
ABN: 78 305 545 664
Street Address: 3 Sefton Road
Thornleigh
NSW 2120
Australia
Telephone: +61 2 9875 3044
Facsimile: +61 2 9875 3665

Emergency Telephone number: +61 2 9875 3044

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word

Warning

Hazard Classifications

Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A
Sensitisation - Skin - Category 1
Chronic Hazard to the Aquatic Environment - Category 2

Hazard Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray..
P264 Wash hands, face and all exposed skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

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 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. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

Safety Data Sheet

Megapoxy

P362

Take off contaminated clothing and wash before reuse.

Storage Precautionary Statement

Not allocated

Disposal Precautionary Statement

Not allocated

Poison Schedule: S5. Caution

DANGEROUS GOOD CLASSIFICATION

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".

Dangerous Goods Class: 9

3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS NO | PROPORTION |
|--|------------|------------|
| Bisphenol-A epoxy resin | 25068-38-6 | 30-60 % |
| Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives | 68609-97-2 | 1-9 % |
| Ingredients determined to be Non-Hazardous | | Balance |

4. FIRST AID MEASURES

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

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to physician: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazchem Code: •3Z

Suitable extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Safety Data Sheet

Megapoxy

Fire fighting further advice: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 47

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

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.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, GLOVES, SAFETY GLASSES.

Wear safety shoes, gloves, safety glasses. 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.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet

Megapoxy

Form: Paste
Colour: White

Solubility: Insoluble in water
Specific Gravity (20 °C): 1.40-1.50 @ 25 Deg C
Relative Vapour Density (air=1): >1
Vapour Pressure (20 °C): <0.01 Pa
Flash Point (°C): >200 Deg C
Boiling Point/Range (°C): >200 Deg C
Decomposition Point (°C): >200 Deg C
Total VOC (g/Litre): Nil
% Volatile by Volume: Nil

(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

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: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation. 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: An eye irritant. 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 non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

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).

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Megapoxy

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 non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF \geq 500 and/or log $K_{ow} \geq$ 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

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".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
- (b) IBCs.

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Megapoxy



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III
Hazchem Code: •3Z
Emergency Response Guide No: 47

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN No: 3082
Dangerous Goods Class: 9
Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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)
International Convention for the Prevention of Pollution from Ships (MARPOL)

Safety Data Sheet

Megapoxy

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)

- Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives

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).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

Reason for issue: First issue

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

Megapoxy

Hazardous Chemical, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Megapoxy PF - Part B**

Recommended use: Adhesive for civil engineering use

Supplier: Vivacity Engineering Pty Ltd
ABN: 78 305 545 664
Street Address: 3 Sefton Road
Thornleigh
NSW 2120
Australia
Telephone: +61 2 9875 3044
Facsimile: +61 2 9875 3665

Emergency Telephone number: **+61 2 9875 3044**

2. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Safe Work Australia.



Signal Word

Warning

Hazard Classifications

Acute Toxicity - Oral - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Irritation - Category 2A
Sensitisation - Skin - Category 1B
Chronic Hazard to the Aquatic Environment - Category 3

Hazard Statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Prevention Precautionary Statements

P273 Avoid release to the environment.
P280 Wear protective clothing, gloves, eye/face protection and suitable respirator.

Response Precautionary Statements

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Storage Precautionary Statement

Not allocated

Disposal Precautionary Statement

Product Name: **Megapoxy PF - Part B**

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Not allocated

Poison Schedule: S5. Caution

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".

3. COMPOSITION INFORMATION

| CHEMICAL ENTITY | CAS NO | PROPORTION |
|---|------------|------------|
| Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether | 72244-98-5 | 30-60 % |
| Ingredients determined to be Non-Hazardous | | Balance |

4. FIRST AID MEASURES

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

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or Hospital.

Eye contact: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Immediately call Poisons Centre or Doctor.

Notes to physician: Treat symptomatically. Effects may be delayed.

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.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Product Name: Megapoxy PF - Part B

Reference No:

Issued: 2016-12-20

Version: 1.0

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Megapoxy

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

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.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions..

Personal Protection Equipment: SAFETY SHOES, GLOVES, SAFETY GLASSES.

Wear safety shoes, gloves, safety glasses. 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.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste
Colour: Natural / Dark Grey
Odour: Strong specific odour, sulphur-like

Solubility: Partially soluble in water
Specific Gravity (20 °C): 1.48-1.52 @ 25 Deg C
Relative Vapour Density (air=1): >1
Vapour Pressure (20 °C): <0.01 Pa
Flash Point (°C): >200 Deg C
Boiling Point/Range (°C): >200 Deg C
Decomposition Point (°C): >200 Deg C

Product Name: Megapoxy PF - Part B

Reference No:

Issued: 2016-12-20

Version: 1.0

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Megapoxy

Total VOC (g/Litre): Nil
% Volatile by Volume: Nil

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

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

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: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

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

Eye contact: An eye irritant. 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 non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as a Category 4 Hazard. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg

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

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Safety Data Sheet

Megapoxy

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 3 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 10 - 100 mg/L, where the substance is not rapidly degradable and/or $BCF \geq 500$ and/or $\log K_{ow} \geq 4$.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

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.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)

The Stockholm Convention (Persistent Organic Pollutants)

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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).
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Reason for issue: First issue

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.