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TOPDEK M.I.O. EPOXY Base, (Part A)

SAFETY DATA SHEET

DATE OF ISSUE: 11/04/2017

Classified as Hazardous according to Criteria of Safe Work Australia

Section 1 – Chemical Product & Company Identification

PRODUCT NAME	Topdek M.I.O. Epoxy Base (Part A)
PROPER SHIPPING NAME	Epoxy paint (Part A)
PRODUCT USE	A two pack anti-corrosive, tough abrasion and chemical resistant micaceous iron oxide coating. To be used in conjunction with M.I.O. Epoxy Hardener (Part B), at a mix rate of 3 parts Base to 1 part Hardener (3:1 mix). For industrial and decorative applications.
MANUFACTURERS PRODUCT CODE	1025 – Base (Part A)
SUPPLIER	Paint Industries Pty Ltd 61 Lionel St Naval Base 6165 Perth WA Ph: 08 9437 1488 Fax: 08 9410 2395

Section 2 – Hazards Identification

STATEMENT OF HAZARDOUS NATURE

THIS MATERIAL IS HAZARDOUS ACCORDING TO HEALTH CRITERIA OF SAFE WORK AUSTRALIA



SIGNAL WORD

Warning

HAZARD CLASSIFICATION

Flammable Liquid – Category 3
Acute Toxicity – Dermal – Category 4
Acute Toxicity – Inhalation - Category 4
Skin Corrosion/Irritation – Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3

HAZARD STATEMENT(S)

H226 Flammable liquid & vapour.
H312 Harmful in contact with skin.
H315 Cause skin irritation.

H332 Harmful if inhaled.
 H336 May cause drowsiness and dizziness.

PREVENTION PRECAUTIONARY STATEMENT(S)

P102 Keep out of reach of children.
 P103 Read label before use.
 P210 Keep away from all sources of ignition – No Smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical, ventilating, lighting and all other equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge
 P261 Avoid breathing mist, vapours, or spray
 P264 Wash hands, face and all exposed skin thoroughly after handling.
 P271 Use only outdoors or in well ventilated areas.
 P280 Wear protective clothing, gloves, eye/face protection and suitable respirator as required.

RESPONSE PRECAUTIONARY STATEMENT(S)

P101 If medical advice is needed, have product container or label on hand.
 P302+352 IF ON SKIN: Wash with soap and water.
 P303+361+353 IF ON SKIN (or hair):Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P332+313 If skin irritation occurs: Get medical advice/attention.
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
 P370+378 In case of fire: Use alcohol resistant foam for extinction.

STORAGE PRECAUTIONARY STATEMENT(S)

P405 Store locked up
 P403+235 Store in a well-ventilated place. Keep cool.

DISPOSAL PRECAUTIONARY STATEMENT(S)

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

POISON SCHEDULE (AUST): Not applicable.

DANGEROUS GOODS CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New ZealandNZSS433: Transport of Dangerous Goods on land"

CLASS **3** Flammable Liquid

Section 3 – Composition/Information on Ingredients

Chemical Name	CAS Number	Proportion %
Epoxy resin	25068-38-6	Med 10-60%
Zinc Phosphate	7779-90-0	Low >10%
Micaceous Iron Oxide	1345-25-1	Med 10-60%
Xylene	1330-20-7	Low >10%
Additives		Low >10%

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

Remove victim from exposure – avoid becoming a causality. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue) ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

SKIN CONTACT

For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance. A component of this material can be absorbed through the skin with resultant toxic effects. Seek medical advice.

EYE CONTACT

If in eyes wash out immediately with water. Seek medical attention.

INGESTION

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

NOTE TO PHYSICIAN:

Treat symptomatically.

Section 5 – Fire Fighting Measures

SPECIFIC HAZARDS

Flammable liquid. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this material is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to a source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in or near the work area. Do NOT smoke.

SUITABLE EXTINGUISHING MEDIA

Alcohol resistant foam is the preferred firefighting medium. If material is involved in a fire use alcohol resistant foam, standard foam or dry agent (carbon dioxide or dry chemical powder)

FIRE FIGHTING FURTHER ADVICE

If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning 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.

HAZCHEM CODE: •3Y

Section 6 – Accidental Release Measures

MINOR SPILLS

Wear protective equipment to prevent skin and eye contamination. Wipe up with absorbent (clean rag or paper Towels) Allow absorbent to dry before disposing with normal household rubbish.

MAJOR SPILLS

Shut all possible sources of ignition. Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Work up wind or increase ventilation. Contain – prevent runoff into drains and waterways. Use absorbent (soil, sand, or other inert material). Collect and seal in properly labelled containers or drums for disposal. Use a spark free shovel. If contamination of sewers or waterways has occurred advise local emergency services.

DANGEROUS GOODS – INITIAL EMERGENCY RESPONSE GUIDE No: 14

Section 7 - Handling and Storage

PROCEDURE FOR HANDLING

Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

STORAGE REQUIREMENTS

Store in a cool, dry, well ventilated place out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials as described in a cool, dry, well ventilated area. DO NOT store in pits, depressions, basements or areas where vapours will be trapped. NO SMOKING, naked flames, heat or ignition sources. Store away from sources of heat or ignition. Keep containers closed when not in use – check regularly for leaks. Store in original containers in approved flammable liquid storage area.

SUITABLE CONTAINER

Packed as supplied by manufacturer. Approved plastic containers for flammable material only. Check all containers are labelled and not leaking. Manufactured product that requires stirring before use and having a viscosity of at least 5.5 Cp @ 25 deg C

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with relevant regulations

Section 8 – Exposure Controls/Personal Protection

EXPOSURE CONTROLS

Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	CARCINOGEN CATEGORY	NOTICES
Xylene	80ppm	350mg/m ³	150ppm	655mg/m ³	---	---

TWA: The time weighted average airborne concentration over an 8 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 8 hour working day.

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 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 with local exhaust ventilation or while wearing air supplied mask. Vapour heavier than air – prevent concentrations in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

PERSONAL PROTECTION EQUIPMENT

Overalls, Safety shoes, Safety glasses, Gloves, Respirator.

Wear overalls, safety glasses and impervious gloves. 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 nitrile rubber should be suitable for intermittent contact. However due to variations in glove manufacture and local conditions, the user should make the 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 feed stuffs. When using do not eat, drink, or smoke. Wash hands prior to eating, drinking, and smoking. Avoid skin and eye contact and inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 – Physical and Chemical Properties

Appearance/Form/Odour:	Black/Grey coloured viscous liquid
Boiling point/melting point:	137-143°C
Vapour Pressure (20°C):	0.7kPa @ 38°C
Specific Gravity:	1.296g/lit
Flash Point:	Above 55° C (TCC)
Solubility in water:	Insoluble in water
Flammability limits:	Lower 1.1%, Upper 7.75

OTHER PROPERTIES

Percentage Volatiles	N Av
	(Typical values only – consult specification sheet)
	N Av = Not Available N App = Not Applicable

Section 10 - Stability and Reactivity

REACTIVITY

No reactivity hazards are known for the material.

CHEMICAL STABILITY

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

HAZARDOUS REACTIONS

No known hazardous reactions.

CONDITIONS TO AVOID

Elevated temperatures and sources of ignition.

INCOMPATIBLE MATERIALS

Incompatible with oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon and nitrogen, smoke and other toxic fumes.

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 over exposure occurs are:

ACUTE HEALTH EFFECTS

INHALATION

Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement, and if exposure is prolonged, unconsciousness.

SKIN CONTACT

Contact with skin will cause irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis. A component of this material can be absorbed through the skin. Effects can include those described for "INGESTION"

INGESTION

Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

EYE

May be an eye irritant.

ACUTE TOXICITY

INHALATION

This material has been classified as a Category 4 Hazard.
Acute toxicity estimate (based on ingredients): 10-20 mg/L.

SKIN CONTACT

This material has been classified as a Category 4 Hazard.
Acute toxicity estimate (based on ingredients): 1000-2000 mg/Kg.

INGESTION

This material has been classified as non-hazardous.

CORROSION/IRRITANCY

Eye: this material has been classified as not corrosive or irritating to eyes.
Skin: This material has been classified as Category 2 hazard (irritant to skin)

SENSITISATION

Inhalation: This material has been classified as not a respiratory sensitiser.
Skin: This material has been classified as not a skin sensitiser.

ASPIRATION HAZARD

This material has been classified as non-hazardous.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure)

This material has been classified as a Category 3 Hazard.

Exposure via inhalation may result in depression of the central nervous system.

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.

Section 12 – Ecological Information

Avoid contaminating water ways.

ACUTE AQUATIC HAZARD

This material has been classified as a category Acute 1 Hazard.

Acute toxicity estimate (based on ingredients) <1 mg/L

LONG-TERM AQUATIC HAZARD

No information is available to complete an assessment.

ECOTOXICITY

No information available.

PERSISTANCE AND DEGRADABILITY

No information available.

BIOACCUMULATIVE POTENTIAL

No information available.

MOBILITY

No information available.

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

Section 14 – Transportation Information

ROAD AND RAIL TRANSPORT

Classified as a Dangerous Good by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road and Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”

UN No: 1263
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III
Hazchem Code: •3Y
Emergency Response Guide No: 14

Proper Shipping Name: Paint

Segregation of Dangerous Goods

Not to be loaded with explosives (Class 1), Flammable gases (Class 2.1), if both are in bulk, Toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), Oxidising agents (Class 5.1), Organic peroxides (Class 5.2), or Radioactive substances (Class 7), however exemptions may apply.

MARINE TRANSPORT

Classified as a Dangerous Good by the criteria of the International Maritime Dangerous Good 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: 1263
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III

Proper Shipping Name: Paint

AIR TRANSPORT

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

UN No: 1263
Dangerous Goods Class: 3 Flammable Liquid
Packing Group: III

Proper Shipping Name: Paint.

Section 15 – Regulatory Information

This material is subject to the following international agreements.

Basel Convention (Hazardous waste)

- Waste from production, formulation, and use of inks, dyes, pigments, paints, lacquers, varnish.

International Convention for the Prevention of Pollution from ships.

- Annex III – Harmful Substances carried in packaged form.

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

- All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AISC)

Section 16 – Other Information

Reason for Issue: Format change.

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

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