

Pitakote Swimming Pool Epoxy Part B

Safety Data Sheet

Review Date: 01/11/2024

Product Code: 782004

1. Identification of Substance & Company

Product

- **Product name:** Pitakote Swimming Pool Epoxy Part B
- **Product code:** not assigned
- **HSNO approval:** HSR002664
- **Approval description:** Surface Coatings and Colourants (Flammable, Corrosive, Carcinogenic) Group Standard 2020
- **UN number:** 2920
- **Proper Shipping Name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-, 4-methylpentan-2-one)
- **DG class:** 8, 3
- **Packaging group:** III
- **Hazchem code:** 3W
- **Uses:** Paint

Company Details

- **Company:** Commercial Coating Manufacturers Ltd
- **Address:** 9 Bay Park Place, Beach Haven, AUCKLAND, New Zealand
- **Telephone:** (09) 483 4833

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002664, Surface Coatings and Colourants (Flammable, Corrosive,

Carcinogenic) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes & Hazard Statements

- **Flammable liquid category 3** - H226: Flammable liquid and vapour
- **Acute toxicity category 4 (oral)** - H302: Harmful if swallowed
- **Acute toxicity category 4 (dermal)** - H312: Harmful in contact with skin
- **Skin corrosive category 1C** - H314: Causes severe skin burns and eye damage
- **Eye damage category 1** - H318: Causes serious eye damage
- **Skin sensitiser category 1** - H317: May cause an allergic skin reaction
- **Respiratory sensitiser category 1** - H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- **Carcinogen category 2** - H341: Suspected of causing cancer
- **Reproductive toxicity category 2** - H361: Suspected of damaging fertility or the unborn child
- *STOT repeated exposure category 2** - H373: May cause damage to organs through prolonged or repeated exposure
- **Chronic aquatic category 2** - H411: Toxic to aquatic life with long lasting effects

*STOT – System Target Organ Toxicity

Symbols

DANGER



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention:

- P102: Keep out of reach of children
- P103: Read label before use
- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from ignition sources. No smoking

- P233: Keep container tightly closed
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P260: Do not breathe vapours
- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P272: Contaminated work clothing should not be allowed out of the workplace
- P273: Avoid release to the environment
- P280: Wear protective gloves/eye/face protection
- P285: In case of inadequate ventilation wear respiratory protection

Response:

- P101: If medical advice is needed, have product container or label at hand
- P308+P313: IF exposed or concerned: Get medical advice/attention
- P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P310: Immediately call a POISON CENTRE or doctor/physician
- P363: Wash contaminated clothing before reuse
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention
- P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P310: Immediately call a POISON CENTRE or doctor/physician
- 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 CENTRE or doctor/physician
- P304+P341: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
- P342+P311: If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician
- P308+P313: IF exposed or concerned: Get medical advice/attention

Storage:

- P403+P235: Store in a well-ventilated place. Keep cool
- P405: Store locked up

Disposal:

- P501: Dispose of contents/container in accordance with local/regional/national/international regulation

3. Composition / Information on Ingredients

Component	CAS/Identification	Conc (%)
2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy -	68541-07-1	>94%
Diethylene triamine (DETA)	111-40-0	<4%
Methylisobutyl ketone	108-10-1	<2%

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities

Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. If conscious, give plenty of water to drink. DO NOT INDUCE vomiting. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

Skin contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTRE or doctor/physician.

Inhaled: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity.

Suitable extinguishing substances: Carbon dioxide, extinguishing powder, foam.

Unsuitable extinguishing substances: Unknown.

Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

Hazchem code: 3Y

6. Accidental Release Measures

Containment: If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.

Emergency procedures: In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).

Clean-up method: Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Disposal: Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

Precautions: Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage: Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location test certificates must be available if storing >500L (containers >5L), 1500L (containers ≤5L), 250L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.

Handling: Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Standards

Ingredient	WES-TWA	WES-STEL
Diethylene triamine	1ppm, 4.2 mg/m ³ (skin, dsen, rsen)	not established
Methylisobutyl ketone	50ppm, 205mg/m ³	75ppm, 307mg/m ³

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or

other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

General: Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.



Eyes: Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses. Select eye protection in accordance with AS/NZS 1337.



Skin: Avoid any skin contact. Wear suitable protective clothing, e.g. overalls or aprons, rubber boots and impervious gloves. Neoprene gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.



Respiratory: A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Property	Value
Appearance	light yellow liquid
Odour	not specified
Odour Threshold	no data
pH	alkaline
Freezing/melting point	no data
Boiling Point	>100°C
Flashpoint	57.22°C
Flammability	flammable liquid
Upper & lower flammable limits	no LEL or UEL
Vapour pressure	no data
Vapour density	no data
Specific gravity/density	0.97 (water = 1)
Solubility	miscible in water
Partition coefficient	no data
Auto-ignition temperature	no data
Decomposition temperature	no data
Viscosity	no data
Particle Characteristics	no data

10. Stability & Reactivity

Stability: Stable

Conditions to be avoided: Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

Incompatible groups: Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents. Alcohols.

Substance Specific Incompatibility: none known

Hazardous decomposition products: ENTER HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous reactions: none known

11. Toxicological Information

Summary

- **IF SWALLOWED:** harmful if swallowed
- **IF IN EYES:** may cause severe eye damage
- **IF ON SKIN:** may cause burns to the skin. Sensitised individuals may experience allergic skin reactions, e.g. dermatitis
- **IF INHALED:** may cause respiratory irritation. Sensitised individuals may experience allergic respiratory reactions e.g. asthma
- **CHRONIC TOXICITY:** 2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- is suspected of causing cancer, may affect reproductive

Supporting Data

Acute Oral: Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000 mg/kg. Data considered includes: 2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- 670mg/kg, Diethylene triamine (DETA) 600 mg/kg bw (guinea pig), Methylisobutyl ketone 1600mg/kg (guinea pig).

Aspiration: This mixture is not considered an aspiration hazard.

Dermal: Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg. Data considered includes: 2-Propanol,

1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- 1250mg/kg, Diethylene triamine (DETA) 170 mg/kg bw (guinea pig).

Inhaled: Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h. Data considered includes: 2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- >10mg/L (rat), Diethylene triamine (DETA) 53.5 mg/l (48hr, Daphnia magna).

Eye: The mixture is considered to be corrosive to the eye, because some of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-) present at >3% are considered eye corrosives.

Skin: The mixture is considered to be corrosive to the skin, because some of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- and Diethylene triamine) present at >5% are considered skin corrosives.

Chronic Sensitisation: The mixture is considered to be a contact and respiratory sensitizer, because at least one of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy- and Diethylene triamine) present in greater than 0.1% is known to be a contact and respiratory sensitizer.

Mutagenicity: No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity: The mixture is considered to be a suspected carcinogen, because at least one of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-) present in greater than 0.1% is suspected to be a carcinogen.

Reproductive/Developmental: The mixture is considered to be a suspected reproductive or developmental toxicant, because at least one of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-) present in greater than 0.1% is suspected to be a reproductive or developmental toxicant.

Systemic: The mixture is considered to be a suspected target organ toxicant, because at least one of the ingredients (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-) present in greater than 1% is suspected to be a target organ toxicant.

Aggravation of existing conditions: None known.

12. Ecological Data

Summary

BRIEFLY SUMMARISE ECOTOXICITY. In all cases prevent run-off to drains, sewers and waterways.

Supporting Data

Aquatic: Using EC50's for ingredients, the calculated EC50 for the mixture is between 1 and 10 mg/L. Data considered includes: 2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-: EC50 (48 h) 17 mg/L (aquatic invertebrates), EC50 (72 h) 1.2 - 2.4 mg/L, (algae), NOEC (72 h) 350 µg/L (Algae). Diethylene triamine (DETA) 32.7 mg/l (2hrs, Nitrifying bacteria).

Bioaccumulation: No data

Degradability: No data

Soil: No evidence of soil toxicity.

Terrestrial vertebrate: See acute toxicity

Terrestrial invertebrate: No evidence of toxicity towards terrestrial invertebrates.

Biocidal: no data

13. Disposal Considerations

Restrictions: There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.

Disposal method: Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.

Contaminated packaging: Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

- **UN number:** 2920
- **Proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-, 4-methylpentan-2-one)
- **Class(es):** 8, 3
- **Packing group:** III
- **Precautions:** CORROSIVE, FLAMMABLE
- **Hazchem code:** 3W

IMDG

- **UN number:** 2920
- **Proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-, 4-methylpentan-2-one)
- **Class(es):** 8, 3
- **Packing group:** III
- **Precautions:** CORROSIVE, FLAMMABLE
- **EmS:** F-E, S-C

IATA

- **UN number:** 2920
- **Proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (2-Propanol, 1-[bis[2-[(1,3-dimethylbutylidene)amino]ethyl]amino]-3-phenoxy-, 4-methylpentan-2-one)
- **Class(es):** 8, 3
- **Packing group:** III
- **Precautions:** CORROSIVE, FLAMMABLE

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002664, Surface Coatings and Colourants (Flammable, Corrosive, Carcinogenic) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

- **SDS:** To be available within 10 minutes in workplaces storing any quantity
- **Inventory:** An inventory of all hazardous substances must be prepared and maintained

- **Packaging:** All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
- **Labelling:** Must comply with the Hazardous Substances (Labelling) Notice 2017
- **Emergency plan:** Required if > 1000L is stored
- **Certified handler:** Not required
- **Tracking:** Not required
- **Bunding & secondary containment:** Required if > 1000L is stored
- **Signage:** Required if > 1000L is stored
- **Location compliance certificate:** Required if > 500L (containers >5L), 1500L (containers ≤5L), 250L (in use) is stored
- **Flammable zone:** Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use), stored in any one location is stored
- **Fire extinguisher:** If > 500L present

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

- **Approval Code:** Approval HSR002664, Surface Coatings and Colourants (Flammable, Corrosive, Carcinogenic) Group Standard 2020 Controls, EPA. www.epa.govt.nz
- **CAS Number:** Unique Chemical Abstracts Service Registry Number
- **EC50:** Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
- **EPA:** Environmental Protection Authority (New Zealand)
- **GHS:** Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
- **HAZCHEM Code:** Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
- **HSNO:** Hazardous Substances and New Organisms (Act and Regulations)
- **IARC:** International Agency for Research on Cancer
- **LEL:** Lower Explosive Limit
- **LD50:** Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats)

- **LC50:** Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
- **NZIoC:** New Zealand Inventory of Chemicals
- **STEL:** Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
- **STOT RE:** System Target Organ Toxicity – Repeated Exposure
- **STOT SE:** System Target Organ Toxicity – Single Exposure
- **TWA:** Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
- **UEL:** Upper Explosive Limit
- **UN Number:** United Nations Number
- **WES:** Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone

References

- **Data:** Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID)
- **Controls:** EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz
- **WES:** The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz
- **Other References:** Suppliers SDS

Review

Date	Reason for review
November 2024	Not applicable - New SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

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