

Pitakote Swimming Pool Epoxy Part A

Safety Data Sheet

Review Date: 01/11/2024

Product Code: 782005 / 782006

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1. Identification of Substance & Company

Product Information

Product name: Pitakote Swimming Pool Epoxy Part A

Product code: not assigned

HSNO approval: HSR002670

Approval description: Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

UN number: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A diglycidyl ether resin)

DG class: 9

Packaging group: III

Hazchem code: 3Z

Uses: 2 part 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 HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) 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

- **Eye irritant category 2** - H319: Causes serious eye irritation
- **Skin irritant category 2** - H315: Causes skin irritation
- **Skin sensitiser category 1** - H317: May cause an allergic skin reaction
- **Mutagen category 2** - H341: Suspected of causing genetic defects
- **Reproductive toxicity category 2** - H361: Suspected of damaging fertility or the unborn child

- **Chronic aquatic category 2** - H411: Toxic to aquatic life with long lasting effects

Symbols

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

Prevention:

- P103: Read label before use
- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P264: Wash hands thoroughly after handling
- P261: Avoid breathing vapours
- P272: Contaminated work clothing should not be allowed out of the workplace
- P273: Avoid release to the environment
- P280: Wear protective gloves/protective clothing/eye protection/face protection

Response:

- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337+P313: If eye irritation persists: Get medical advice/attention
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention
- P363: Wash contaminated clothing before reuse
- P308+P313: IF exposed or concerned: Get medical advice/attention

Storage:

- 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 (%)
Bisphenol A diglycidyl ether resin	25068-38-6	30-60%

Butyl glycidyl ether

2426-08-6

5-20%

ingredients not contributing to GHS classes

mixture

balance

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: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use.

Inhaled: Generally, inhalation of fumes/vapours/dusts is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is non-flammable.

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: 3Z

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.

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
Butyl glycidyl ether	25ppm, 133mg/m ³	not established

titanium dioxide	10mg/m ³	not established
Quartz (SiO ₂)	0.025mg/m ³ Respirable dust	not established

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 be 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: Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.



Skin: Avoid repeated or prolonged 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. Wash hands after handling.



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 and a particulate filter. 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.

9. Physical & Chemical Properties

Property	Value
Appearance	viscous liquid, various colours
Odour	faint odour
Odour Threshold	no data
pH	no data
Freezing/melting point	no data
Boiling Point	no data
Flashpoint	non flammable
Flammability	non flammable
Upper & lower flammable limits	no LEL or UEL
Vapour pressure	no data
Vapour density	no data
Specific gravity/density	1.68kg/L $\pm$ 4
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: Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.

Incompatible groups: Isocyanates and strong oxidising agents.

Substance Specific Incompatibility: none known

Hazardous decomposition products: Oxide of carbon, hydrocarbons.

Hazardous reactions: none known

11. Toxicological Information

Summary

- **IF SWALLOWED:** may cause gastrointestinal irritation. Consult a doctor.
- **IF IN EYES:** may cause irritation.
- **IF ON SKIN:** sensitised individuals may experience an allergic skin reaction.
- **IF INHALED:** sensitised individual may experience an allergic reaction, e.g. asthma.

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: Bisphenol A diglycidyl ether resin 15600mg/kg (mouse), 10.7mL/kg (rat), Butyl glycidyl ether 2000mg/kg (rat).

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: Bisphenol A diglycidyl ether resin >20mL/kg (rabbit).

Inhaled: Using LD50's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h. Data considered includes: Bisphenol A diglycidyl ether resin not reported, Butyl glycidyl ether >670ppm/8hr).

Eye: The mixture is considered to be an eye irritant, because some of the ingredients (Bisphenol A diglycidyl ether resin) present are considered eye irritants in more concentrated form.

Skin: The mixture is considered to be a skin irritant, because some of the ingredients (Bisphenol A diglycidyl ether resin) present are considered skin irritants in more concentrated form.

Chronic Sensitisation: The mixture is considered to be a contact sensitizer, because at least one of the ingredients (Bisphenol A diglycidyl ether resin) present in greater than 0.1% is known to be a contact sensitizer.

Mutagenicity: The mixture is considered to be a suspected mutagen, because at least one of the ingredients (Butyl glycidyl ether) present in greater than 0.1% is suspected to be a mutagen.

Carcinogenicity: No ingredient present at concentrations > 0.1% is considered a carcinogen.

Reproductive/Developmental: The mixture is considered to be a suspected reproductive or developmental toxicant, because at least one of the ingredients (Butyl glycidyl ether) present in greater than 0.1% is suspected to be a reproductive or developmental toxicant.

Systemic: No ingredient present at concentrations > 1% is considered a target organ toxicant.

Aggravation of existing conditions: None known.

12. Ecological Data

Summary

This mixture is considered toxic towards aquatic organisms with long lasting effects. 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 > 100 mg/L. Data considered includes: Bisphenol A diglycidyl ether resin 1.2 mg/L (96h, Oncorhynchus mykiss), 2.7 mg/L (48h, Daphnia magna).

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.

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Class(es): 9

Packing group: III

Precautions: Marine Pollutant

Hazchem code: 3Z

IMDG

UN number: 3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (contains Bisphenol A diglycidyl ether resin)
Class(es): 9
Packing group: III
Precautions: Marine Pollutant
EmS: F-A, S-F

IATA

UN number: 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID (contains Bisphenol A diglycidyl ether resin)
Class(es): 9
Packing group: III
Precautions: Marine Pollutant

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

Control	Requirement
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	Not required

Flammable zone Not required

Fire extinguisher Not required

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

Abbreviation	Definition
Approval Code	Approval HSR002670, Surface Coatings and Colourants (Subsidiary Hazard) 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

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 content of 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.