

Material Safety Data Sheet

Epoxy-WBE Water Based coating Part A

Classified as hazardous according to criteria of NOHSC.

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Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Pave-Coat Floor Sealer Base
OTHER NAMES: Water Based Acrylic Sealer
MANUFACTURER'S PRODUCT CODE: F2405/32/1
PACKAGING GROUP: 111
METHOD OF APPLICATION: Roller
RECOMMENDED USE: 2 Pack coating for concrete

UN No.: None allocated
DANGEROUS GOODS CLASS: Not Dangerous
SUB RISK: None Allocated
HAZCHEM: None allocated
POISONS SCHEDULE: None allocated

Section 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: Classified as hazardous according to criteria of NOHSC

RISK PHRASES: Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

SAFETY PHRASES: Do not breathe gas, fumes, vapour or spray.

Avoid contact with skin and eyes

Wear suitable protective clothing, gloves and eye/face protection.

Avoid release to the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Water	(108-88-3)	30-<60 %
Reaction product of Epichlorhydrin and Bisphenol A	(25085-99-8)	40<70%
Non toxic additive		<1.0%

Section 4: First Aid Measures

Inhalation No adverse effects anticipated by this route of exposure

Ingestion Rinse mouth with water. Do not induce vomiting. Drink two glasses of water and seek medical attention.

Skin contact: Remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact: Immediately wash eyes with running water, holding eyelids open. If irritation occurs, seek medical attention.

Medical Attention

And Special Treatment Treat symptomatically.

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Section 5: Fire Fighting Measures

Suitable Extinguishing Media : Extinguishing Media Carbon dioxide. Dry chemical fire extinguishers. Foam.

Hazards from combustion products: Specific Hazards Non-flammable product. Hazardous Combustion Products Under conditions of incomplete combustion or pyrolysis, phenolics and carbon oxides may be evolved. The thermal decomposition products therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.

Precautions for fire fighters and Special protective equipment: Wear positive-pressure self-contained breathing apparatus and protective fire- fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).

Section 6: Accidental Release Measures

Emergency Procedures : If contamination of sewers or waterways has occurred, advise local emergency services.

Methods and materials for

Containment and clean up: Contain liquid to prevent contamination of soil, surface water or ground water. Flushing and wash waters must be contained and prevented from entering into soil, waterways and ground water. Large spills: Contain with dike.

CLEAN UP: Cover and soak up with a suitable absorbent material, such as: Sand. Collect in suitable and properly labelled containers.

Section 7: Handling and Storage

Conditions for safe storage: Store in a cool place out of direct sunlight. Keep containers closed when not in use. Check regularly for leaks.

Precautions for safe handling : Keep out of reach of children. Avoid eye contact or prolonged skin contact.

Section 8: Exposure Controls, Personal Protection

National Exposure Standards: There is no Australian Workplace Standard for this product.

Engineering Controls: Provide adequate ventilation. If using indoors, keep windows and doors open during use. Keep containers closed when not in use.

Personal Protective Equipment: Use only approved protective clothing and equipment when handling this material (refer Australian Standards below). Body Protection Use protective clothing impervious to this material. Selection of specific items such as face shield, gloves, boots, apron, or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin with soap and water, and launder clothing before reuse. Selection and use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including: AS/NZS 1336: Recommended practices for eye protection in the industrial environment. AS/NZS 1337: Eye protectors for industrial applications. AS/NZS 1715: Selection, use and maintenance of respiratory protective devices. AS/NZS 2161.2: Occupational protective gloves. General requirements. AS/NZS 2210: Occupational protective footwear. AS 2919: Industrial clothing.

Section 9: Physical and Chemical Properties

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Physical state:	Viscous Liquid
Colour:	Creamy
Odour:	Bland
Solubility:	Miscible with water
Specific gravity @ 25 °C:	1.041 to 1.094
Relative Vapour Density(air =1):	not available
Vapour Pressure:	not available
Flash Point:	not applicable
Flammability Limits:	not applicable
Auto Ignition Temperature:	not applicable
%Volatile by Weight:	not available
Solubility in water(g/L)	Miscible
Melting Point/Range(°C)	not applicable
Boiling Point/Range(°C)	100(water)
Decomposition Point(°C)	not available
pH;	7-8
Viscosity:	not available
Evaporation Rate:	not available

Section 10: Stability and Reactivity

Chemical stability: Stable under recommended storage.

Conditions to Avoid: Avoid contact with foodstuffs. Avoid contact with oxidising materials, acids and bases. Avoid unintended contact with amines.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Uncontrolled exothermic reaction of epoxy resins release phenolics, carbon monoxide and water.

Hazardous reactions: Will not occur by itself. Mass addition of an aliphatic amine will cause irreversible polymerization with some heat build up.

Section 11: Toxicological Information

Ingestion:: The oral LD50 for rats is greater than 5,000 mg/kg. **SKIN ABSORPTION:** The LD50 for skin absorption in rabbits is 20,000 mg/kg. **MUTAGENICITY (EFFECTS ON GENETIC MATERIAL):** Animal mutagenicity studies were negative. In vitro mutagenicity studies were negative in some cases and positive in others. Chronic Effects

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Except for skin sensitisation, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

TERATOGENICITY: DGE BPA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or Page 7 of 11 *Trademark of Dow

Chemical Company when pregnant rats or rabbits were exposed orally. **REPRODUCTIVE TOXICITY:** In animal studies, has been shown not to interfere with reproduction. **CARCINOGENICITY:** Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGE BPA). Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGE BPA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGE BPA is not classified as a carcinogen.

Section 12: Ecological Information

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Ecotoxicity: Avoid contaminating waterways, drains, sewers or ground. Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Environmental Fate:: Bioconcentration potential is moderate. (BCF between 100 and 3000 or Log Pow between 3 and 5). Potential for mobility in soil is low (Koc between 500 and 2000). Measured log octanol/water partition coefficient (Log Pow) is 3.7 - 3.9. Soil organic carbon/water partition coefficient (Koc) is estimated to be 1800 - 4400. Henry's Law Constant (H) is estimated to be 6.94E-09 atm-m³ mole. Log octanol/water partition coefficient (Log Pow) is estimated using a structural fragment method to be 3.84. **DEGRADATION & TRANSFORMATION:** Theoretical oxygen demand (ThOD) is calculated to be 2.35 p/p. In the atmospheric environment, material is estimated to have a tropospheric half-life of 1.92 hr. Biodegradation reached in Modified Zahn-Wellens/EMPA test (EOCD Test No. 302B) after 28 days: 12%. 20-Day biochemical oxygen demand (BOD₂₀) is less than 2.5%.

ECOTOXICOLOGY: Material is moderately toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ between 1 and 10 mg/L in most sensitive species). Acute LC₅₀ for water flea (*Daphnia magna*) is 1.3 mg/L. Acute LC₅₀ for fathead Page 8 of 11 *Trademark of Dow Chemical Company minnow (*Pimephales promelas*) is 3.1 mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea (*Daphnia magna*) is 0.55 mg/L. Growth inhibition threshold in bacteria is greater than 42.6 mg C/L. Inhibitory concentration (IC₅₀) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is greater than 100 mg/L.

Section 13: Disposal Considerations

Disposal Methods: Disposal Do not allow into any sewers, drains, on the ground or into any body of water. Any disposal must be in accordance with applicable State, Territory and/or Local government regulations. The preferred waste management option for unused, uncontaminated, unformulated, or not otherwise altered material, is to send to an approved recycler, reclaimer, or incinerator. The same waste management options are recommended for used or contaminated material, although additional evaluation is required. Waste characterization and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered 'arranging for disposal'. Chemical additions, processing, storage, or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Any disposal of contaminated packaging and washings must be in accordance with State, Territory and/or Local government regulations. After container has been cleaned and labelling has been removed, empty containers can be sent for recycling or disposal. If the container is to be reconditioned, the reconditioning company should be made aware of the nature of the original contents

Section 14: Transport Information

Road and Rail Transport: This product is not classified as a dangerous good for road and rail transport in the Australian Dangerous Goods Code (ADG). The principal component is not included in the lists of Environmentally Hazardous Substances included in Appendix 8 of the 6th Edition of the ADG Code.

ADG U.N. Number None Allocated

ADG Proper Shipping Name None Allocated

ADG DG Class None Allocated

ADG Hazchem Code None Allocated

ADG Packing Group None Allocated

Marine Transport: Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

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Sea - IMO/IMDG Class: 9

UN Number: 3082

Packing Group: III

Marine Pollutant: No

AIR TRANSPORT: Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Epoxy resin)

Air - ICAO/IATA Class: 9

UN Number: 3082

Packing Group: III

Section 15: Regulatory Information

Classification: Hazardous substance. Irritant. Sensitizer.

Poisons Schedule: S5

Risk Phrase R36/38 Irritating to eyes and skin. R43 May cause sensitization by skin contact.

Safety Phrase S24 Avoid contact with skin. S28 After contact with skin, wash immediately with plenty of water and soap. S37/39 Wear suitable gloves and eye/face protection. S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Packaging & Labelling Product is labelled in accordance with the Code of Practice for Labelling Workplace Substances. Product repackaged for public consumer use should be labelled in accordance with the current Standard for Uniform Scheduling of Drugs & Poisons (SUSDP), Part 2.

Section 16: Other Information

Contact Person: General Manager, Transpacific Bituminous Products Pty Ltd
02 9772 4433
After hours 0414 499 402

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