

BIOSYMPH LIMITED

MATERIAL SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: BitPost™
 Product Code: BP - xxx
 Product Use: Wood and Fence Post Stain and Preserver
 New Zealand Supplier: Biosymph Limited
 Address: 2287 Kakarama Road
 RD10 Whatawhata 3290
 Hamilton
 Telephone: +64 (0)7 829 8606 or +64 (0)22 607 6400 (mob)
 eMail: admin@biosymph.co.nz

Emergency Telephone: 0800 76 47 66 (National Poisons Centre)

Date of MSDS Preparation: 23 January 2018 version 6

Section 2. Hazards Identification

This substance is not classified as a dangerous good according to NZS5433: 2007

Pictograms

NONE REQUIRED

HSNO Classification	Hazard Code	Hazard Statement
6.1E	H333	May be harmful if inhaled
6.3B	H316	Causes mild skin irritation
9.1B	H411	Toxic to aquatic life with long lasting effects
Prevention Code	Prevention Statement	
P102	Keep out of reach of children	
P103	Read label or visit our website www.biosymph.co.nz before use	
P210	Keep away from heat and flames	
P233	Keep container tightly closed	
P273	Avoid release into the aquatic environment	
P280	Wear protective gloves / eye protection	
Response Code	Response Statement	
P303+361+353	IF ON SKIN: Remove all contaminated clothing immediately. Rinse skin with water	
P370+378	In case of fire: Use foam, CO2 or dry powder	
P304+312	IF INHALED: Call the POISON CENTRE or a doctor	
P332+313	If skin irritation occurs: Get medical advice	
P391	Collect spillage	
Storage Code	Storage Statement	
P403+233	Store in a well-ventilated place. Keep container tightly closed.	
Disposal Code	Disposal Statement	
P501	Crush or puncture container to prevent further use if not recycled. Dispose of at an approved waste disposal site.	

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Mixed emulsified petroleum solvents in Water	40-80	Not available
Drying oils	10-20	Not available
Cut-back bitumen	5-15	8052-42-4

Section 4. First Aid Measures

Recommended on-site emergency facilities: Eye wash station

Routes of Exposure:

If in Eyes	Remove excess contamination around eyes with olive oil. Wash eyes with a gentle stream of water to dislodge solid particles. Seek medical attention.
If on Skin	Remove contaminated clothing. Physically scrape off excess and use olive oil to dissolve residues. Finally wash skin or hair with soap and water.
If Swallowed	DO NOT INDUCE VOMITING. Seek immediate medical attention.
If Inhaled	Remove patient from contaminated area to fresh air. If patient does not recover normal breathing and is distressed, seek medical advice.

Section 5. Fire Fighting Measures

Hazard Type	NON-flammable liquid
Hazards from decomposition products	Carbon dioxide, nitrogen oxides, unburnt hydrocarbons
Suitable Extinguishing media	Not Applicable

Section 6. Accidental Release Measures

Land Spill or Leaks

Small leaks or spills may be mixed with dry zeolite absorbent (kitty litter), sand or soil and swept up for domestic rubbish disposal.
 Large spills: evacuate all unnecessary personnel.
 Dyke the spill with appropriate spill media (zeolite, sand or soil) and shovel into recovery drums.
 If the spill enters any waterway, sewer or stormwater, notify the Environmental Response unit at the nearest council offices.

Section 7. Handling and Storage

Approved Handlers: Not required.

Precautions for safe handling: Open containers cautiously as they may be under pressure. DO NOT store in confined spaces.

Conditions for safe storage: Store in a cool, dry, well-ventilated area away from food, animal feedstuffs, strong acids, alkalis and oxidizers. Protect from physical damage.
 Regularly inspect bulk containers for leaks or cracks.

Section 8	Exposure Controls / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	CAS #	TWA ppm	mg/m ³	ppm	STEL mg/m ³
Asphalt			5		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls: Always provide good ventilation to keep vapours below the lower explosion limit

Personal Protective Equipment: Always wear suitable protective gloves (nitrile) and eye protection. In confined spaces, an organic vapour respiratory cartridge mask must be used.

General: When large quantities are used, a plastic apron and rubber boots are recommended.

Section 9	Physical and Chemical Properties
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Physical State:	dark brown to black liquid
Odour:	petroleum bitumen odour
pH:	not applicable
Solubility:	soluble in organic solvents; soluble in water
Relative Vapour Density (air=1):	not available
Boiling point:	initial 100°C
Ignition Point:	not available
Flash Point:	not applicable
Specific Gravity:	less than 1.2
Vapour Pressure:	2.13 kPa
% Volatiles:	10%
Evaporation Rate:	not available

Section 10.	Stability and Reactivity
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Chemical Stability	Stable under normal conditions. Does not polymerise
Conditions to Avoid	Heat, direct sunlight, open flames
Incompatibility	Strong oxidizers, acids, alkalis
Hazardous Decomposition Products	Fumes of nitrogen, carbon oxides and acrid unburnt hydrocarbons

Section 11	Toxicological Information
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Acute Oral Toxicity	LD₅₀ Rat (oral) 2000-5000 mg / kg bw
Acute Dermal Toxicity	LD₅₀ Rat (dermal) 2000-5000 mg / kg bw
Chronic Effects	Inhalation of vapours will irritate respiratory system. Prolonged skin exposure will cause redness followed by dermatitis.

Section 12. Ecotoxicological Information

HSNO Classifications:	Class 9.1B harmful to aquatic organisms
Environmental Precautions:	Prevent from entering waterways or contaminating groundwater
Ecotoxicity Data:	Not available
Environmental Fate:	Persistent and non-biodegradable
Environmental Exposure Limits:	Not set

Section 13. Disposal Considerations

Dispose of in approved hazardous landfills or by incineration.

Section 14 Transport Information

Classified as a NON-Dangerous Good for transport.

Section 15 Regulatory Information

ERMA Approval Code:	HSR002662
HSNO Controls:	
Tracking:	Not required
Approved Handlers:	Not required
Location Test Certificate:	500 L in containers \geq 5L; 1500 L in containers <5L; 250 L open
Hazchem signage:	1000 L
Emergency Response Plan:	10,000 L

Section 16 Other Information

1. This product may not be used as a marine anti-fouling paint, for pruning wounds on trees or shrubs or in the commercial treatment of timber.
2. Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>).
3. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Abbreviations:

CAS No	Chemical Abstracts Number
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
WES	Workplace Exposure Standard

References:

Supplier Material Safety Data Sheets

EPA website: www.epa.govt.nz

Hazardous Substances Data Bank (HSDB), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>).

Disclaimer:

This document has been compiled by Biosymph Limited and serves as the manufacturer's Material Safety Data Sheet ('MSDS'). It is based on information concerning the product which has been provided from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. While Biosymph Ltd has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Biosymph Ltd accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS. The information herein is given in good faith, but no warranty, express or implied is made.

This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority.

Please consult the relevant legislation and regulations governing the use and storage of this type of product.

For further information, please contact Biosymph Ltd.

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END OF MATERIAL SAFETY DATA SHEET