

MATERIAL SAFETY DATA SHEET

BIO-SHIELD INTERIOR COATING

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Bio-Shield Interior Coating

DISTRIBUTED BY

Eco-Protective Products, LLC
3535 Peachtree Road NE
Suite 520-643
Atlanta, GA 30326
(770) 757 3713 US/Canada

24 HOUR EMERGENCY TELEPHONE NUMBER

Chemtrec: 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
Water	> 50	7732-18-5
Propylene Carbonate	< 10	108-32-7
Triethylamine salt of polymers	25 - 40	Proprietary

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White liquid.

IMMEDIATE CONCERNS: May cause mild skin, eye and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

EYES: Mild irritant.

SKIN: Mild irritant.

INGESTION: May cause irritation of the digestive tract.

INHALATION: Inhalation of vapors or mist at high concentrations may cause respiratory tract irritation. (nose, throat, lungs)

ROUTES OF ENTRY: Inhalation, skin contact, eye contact, ingestion.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Seek medical attention if irritation develops and persists.

SKIN: Wash affected areas thoroughly with soap and water. Seek medical attention if irritation develops and persists.

INGESTION: Give affected person 1 to 2 cups of water and induce vomiting. Never give anything by mouth to a drowsy or unconscious person. Seek medical attention if irritation develops and persists.

INHALATION: If breathing is difficult, remove to fresh air. Seek medical attention if cough or other respiratory symptoms develop and persist.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not applicable.

EXTINGUISHING MEDIA: This is a water-based product and will not support combustion. Use agent most appropriate to extinguish surrounding fire. On dried product use water, foam, carbon dioxide or dry chemical extinguishers.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide.

FIRE FIGHTING PROCEDURES: Isolate fuel supply from fire. Use water spray to cool fire-exposed surfaces and containers. Fire fighters should wear self-contained breathing apparatus in addition to emergency fire fighting protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spills wearing proper personal protective equipment. (See section 8) Absorb with dry chemical absorbent, earth, sand, or any other inert material. Place in a chemical waste container.

LARGE SPILL: Create a dike or trench to contain materials. Prevent entry into waterways, sewers, basements or confined areas. Clean-up personnel should wear appropriate personal protection equipment. (see section 8) May be a slipping hazard. Absorb with dry chemical absorbent, earth, sand, or any other inert material. Place in a chemical waste container. Wash residues from area with soap and water and rinse. Contaminated water should be retained and not allowed to flow into ground or surface water.

COMMENT: Dispose in accordance with good industrial practice and in compliance with federal, state, and local environmental protection regulations.

7. HANDLING AND STORAGE

HANDLING: Wear proper personal protective equipment. Use in a well ventilated area. Avoid physical damage to containers. Practice good hygiene procedures.

STORAGE: Prevent exposure to high heat. Prevent from freezing. Keep containers sealed in order to avoid contamination. Do not reseal if contaminated. Avoid physical damage to containers.

STORAGE TEMPERATURE: 40 °F – 120 °F

SPECIAL SENSITIVITY: Material is water-based and can freeze at temperatures below 32 °F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<u>CHEMICAL NAME</u>	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Propylene Carbonate	TWA	NE	NE	NE	NE	
Triethylamine salt of polymers	TWA	NE	NE	NE	NE	

KEY:

NE = Not Established

ENGINEERING CONTROLS: If used at elevated temperatures or in confined space, ventilation may be required to control vapors.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses or goggles.

SKIN: Gloves and covering for exposed skin.

RESPIRATORY: None required in normal use.

WORK HYGIENIC PRACTICES: Follow good normal hygiene practices. Avoid contact with skin. Avoid eating, drinking, or smoking while using this product. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

COLOR: White

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Temperature extremes. Container contamination.

STABILITY: Stable under recommended storage conditions.

POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS: Strong acids, strong oxidizers.

11. TOXICOLOGICAL INFORMATION

	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Propylene Carbonate	29100 mg/kg	> 24000 mg/kg	4000 ppm/4h
Triethylamine salt of polymers	> 5000 mg/kg		

EYE EFFECTS: Mild irritant.

SKIN EFFECTS: Mild irritant.

CARCINOGENICITY

IARC: Not classified as a carcinogen.

NTP: Not classified as a carcinogen.

OSHA: Not classified as a carcinogen.

ACGIH: Not classified as a carcinogen.

12. ECOLOGICAL INFORMATION

GENERAL COMMENT: No testing for product as a whole.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with local, state, provincial or national regulations.

EMPTY CONTAINER: Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

RCRA HAZARD CLASS: This material is not a hazardous waste under RCRA 40 CFR 261.

COMMENTS: The generation of waste should be avoided or minimized whenever possible.
Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

DOT REGULATED: Not regulated for transportation.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate health hazard.

313 REPORTABLE INGREDIENTS: The product does not contain chemicals which exceed their *de minimis* reporting levels.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

The product does not contain chemicals which are reportable under CERCLA

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are on TSCA inventory.

RCRA STATUS: Not hazardous if discarded in its purchased form. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste.

16. OTHER INFORMATION

HMIS RATING: Health - 1, Flammability - 0, Physical Hazard - 0

HMIS RATING NOTES: If present, the asterisk signifies a chronic health hazard.

Rating system: 0 = low hazard to 4 = high hazard

MANUFACTURER OR SUPPLIER DISCLAIMER: The information in this MSDS was obtained from sources that we believe are reliable. The information is provided without warranty, implied or expressed, concerning accuracy. The manufacturer or supplier assumes no legal responsibility for use or reliance on this information. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. This MSDS is not a specification data sheet. Some of the information and conclusions may be derived from sources other than test data on the material itself.

KEY LEGEND INFORMATION:

ACGIH - American Conference of Governmental Industrial Hygienists

EPA - Environmental Protection Agency

IARC - International Agency for Research on Cancer

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA - Time Weighted Average

PREPARED BY: L.P.

DATE ISSUED: 05/05/2010

REVISION # and DATE: New