

MATERIAL SAFETY DATA SHEET

ECO-COAT 1500 DD 11-120-12 "A"

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Eco-Coat 1500 DD 11-120-12 "A"

DISTRIBUTED BY

Eco-Protective Products, LLC
3535 Peachtree Rd. NE Suite 520-643
Atlanta, GA 30326
(770) 757-3713

24 HOUR EMERGENCY TELEPHONE NUMBER

Chemtrec: 800-424-9300

2. INFORMATION ON HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
Aliphatic Polyisocyanate	50-70	28182-81-2
tert-Butyl Acetate	10-30	540-88-5
Propylene Carbonate	10-30	108-32-7

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Pale yellow liquid

IMMEDIATE CONCERNS: Irritating to eyes, respiratory system, and skin. Inhalation at levels above the occupational exposure limit could cause risk of damage to respiratory system. The onset of respiratory symptoms may be delayed for several hours after exposure.

POTENTIAL HEALTH EFFECTS

EYES: Liquids, vapors, or mists are irritating to the eyes and can cause stinging, burning, lachrymation or tearing.

SKIN: Moderate irritant. Repeated and/or prolonged contact may cause skin sensitization. Can be absorbed through skin.

INGESTION: Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy, or diarrhea.

INHALATION: Inhalation of vapors or mist at concentrations above the TLV can cause respiratory tract irritation. (nose, throat, lungs) Chronic inhalation can result in sensitization.

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

SENSITIZATION: Any individual with isocyanate sensitization should not be exposed to this

product. These individuals can react to exposure well below the TLV. Symptoms can occur immediately or several hours after exposure.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Discard clothing. For severe exposure, seek medical attention immediately. For lesser exposure, seek medical attention if swelling or redness occurs, or if irritation persists after being washed.

INGESTION: Do not induce vomiting. Never give anything by mouth to a drowsy or unconscious person. If the individual is conscious, rinse mouth with water. Give 1 to 2 cups of water to drink. Seek immediate medical attention.

INHALATION: Remove individual from exposure, keep warm and at rest. If dizzy or shows signs of respiratory distress, obtain immediate medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 68 °F - Closed Cup

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Chemical Foam. Water spray for large fire.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Nitrous Oxide, and HCN

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: Eliminate all ignition sources. Absorb with dry chemical absorbent, earth, sand, or any other inert material. Do not use combustible materials such as sawdust. Place in an open-top chemical waste container. Move to outside well-ventilated area away from ignition sources. Allow material to harden.

LARGE SPILL: Eliminate all ignition sources. Evacuate and ventilate the area. 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) Absorb with dry chemical absorbent, earth, sand, or any other inert material. Do not use combustible

material such as sawdust. Place in a chemical waste container. Move to outside well-ventilated area away from ignition sources.

7. HANDLING AND STORAGE

HANDLING: Wear proper personal protective equipment. Use in a well ventilated area. Avoid smoking, bare lights, or ignition sources. Keep containers securely sealed when not in use. Avoid physical damage to containers.

STORAGE: Wear proper personal protective equipment. Use in a well ventilated area. Avoid smoking, bare lights, or ignition sources. Keep containers securely sealed when not in use. Avoid physical damage to containers.

STORAGE TEMPERATURE: 60 °F – 100 °F

SHELF LIFE: 6 months

SPECIAL SENSITIVITY: Material is hygroscopic and reacts with water. It will form cured particles or a film when exposed to atmospheric moisture. Blanket containers with nitrogen before resealing.

ELECTROSTATIC ACCUMULATION HAZARD: Material will accumulate static charges which may cause an electrical spark. Use proper bonding and/or grounding procedures.

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
Aliphatic Polyisocyanate	TWA	NE	NE	NE	NE		
	STEL						1 [^]
tert-Butyl Acetate	TWA	200	950	200	950		
Propylene Carbonate	TWA	NE	NE	NE	NE		

KEY:

NE = Not Established

[^] = 15 minutes

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields.

SKIN: Wear gloves and clothing to cover exposed skin.

RESPIRATORY: During application, if exposure of product can exceed the PEL/TLV, use appropriate respiratory protection to protect from overexposure.

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.

OTHER PROTECTIVE EQUIPMENT: Safety showers and eye wash stations are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Fruity, like oranges

COLOR: Pale yellow

BOILING POINT: Not Determined

FREEZING POINT: Not Determined

SOLUBILITY IN WATER: Insoluble

NON-EXEMPT VOC: < 5 g/L

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Ignition sources. Temperature extremes. Container contamination. Moisture.

STABILITY: Stable under recommended storage conditions.

POLYMERIZATION: Polymerization may occur at elevated temperatures in the presence of alkalies, tertiary amines, and metal compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Nitrous Oxide, and HCN.

INCOMPATIBLE MATERIALS: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids.

11. TOXICOLOGICAL INFORMATION

	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Aliphatic Polyisocyanate	> 5000 mg/kg	> 5000 mg/kg	390 - 453 mg/L/4h (respirable aerosol)
tert-Butyl Acetate	4100 mg/kg	> 2000 mg/kg	> 2230 mg/m ³ /4h

EYE EFFECTS: Moderate Irritant.

SKIN EFFECTS: Moderate Irritant.

CARCINOGENICITY

IARC: Not classified as a carcinogen.

NTP: Not classified as a carcinogen.

OSHA: Not classified as a carcinogen.

12. ECOLOGICAL INFORMATION

CHEMICAL FATE INFORMATION: Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

COMMENTS: 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 contain flammable product. Do not crush, grind or weld. Decontaminate and pass to an approved drum recycler or destroyed.

RCRA HAZARD CLASS: If discarded as purchased, this material is 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)

UN1993, Flammable Liquids, NOS, (tert-Butyl Acetate), 3, II

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute, Chronic, Reactive

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

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

REGULATED: tert-Butyl Acetate

RQ: 5000 lbs

Any spill or release above the RQ must be reported to the National Response Center (800-424-8802).

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are on TSCA inventory.

RCRA STATUS: Characteristic hazardous waste D001 (Ignitibility) if discarded in its purchased form. (40 CFR 261.21) Contaminated soil, water, container residues and spill cleanup materials should be treated as hazardous waste. (40 CFR 261.3(a)(2)(iv))

16. OTHER INFORMATION

HMIS RATING: Health - *2, Flammability - 3, Physical Hazard - 1

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

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

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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.

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