

MATERIAL SAFETY DATA SHEET

ECO-PRIME CP101 "A"

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Eco-Prime CP101 "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>
MDI Prepolymer	30-50	Not disclosed
Methylene Bisphenyl Isocyanate (MDI)	45-60	101-68-8
Polymeric Diphenylmethane Diisocyanate (PMDI)	40-60	9016-87-9
1,3-Dioxolan-2-one, 4-methyl-	<= 15	108-32-7

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Brown liquid

IMMEDIATE CONCERNS: Irritating to eyes, respiratory system, and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization. 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.

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.

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. Wash clothing thoroughly before reuse. 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, seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > 200 °F (93.3 °C) - Closed Cup

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Chemical Foam, Water Fog or Spray.

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

COMMENT: Product reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

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. Move to outside well-ventilated area. Treat with 10 parts decontamination solution to 1 part isocyanate. Mix well. Allow to stand uncovered 48 hours before disposal.

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. Place in a chemical waste container. Move to outside well-ventilated area. Treat with 10 parts decontamination solution to 1 part isocyanate. Mix well. Allow to stand uncovered 48 hours before disposal. Clean spill area with decontamination solution and allow to stand for 15 minutes before removal.

DECONTAMINATION SOLUTION: Decontamination solution: concentrated ammonia (5%), detergent (2%), and water (93%)

7. HANDLING AND STORAGE

HANDLING: Wear proper personal protective equipment. Use in a well ventilated area. Avoid smoking, bare lights, or ignition sources. Avoid physical damage to containers.

STORAGE: Protect from atmospheric moisture. Keep containers sealed in order to avoid contamination. Do not reseal if contaminated. After container has been opened, blanket with nitrogen before resealing. Store indoors in a cool, well-ventilated area.

STORAGE TEMPERATURE: 60 °F – 120 °F (15.5 °C – 48.9 °C)

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.

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
MDI Prepolymer	TWA	NE	NE	NE	NE		
Methylene Bisphenyl Isocyanate	TWA	0.02*	0.20*	0.005	0.051		
Polymeric Diphenylmethane Diisocyanate	TWA	NE	NE	NE	NE		
1,3-Dioxolan-2-one, 4-methyl-	TWA	NE	NE	NE	NE		

KEY:

NE = Not Established

* = Ceiling Value

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 or goggles.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
 ODOR: Slightly musty
 COLOR: Brown
 BOILING POINT: Not Determined
 FREEZING POINT: Not Determined
 SOLUBILITY IN WATER: Insoluble

10. STABILITY AND REACTIVITY

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

STABILITY: Stable under recommended storage conditions.

POLYMERIZATION: Polymerization may occur at elevated temperatures in the presence of alkalis, 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)
Methylene Bisphenyl Isocyanate (MDI)	> 5000 mg/kg	> 10000 mg/kg	490 mg/m ³ /4h (respirable aerosol)
1,3-Dioxolan-2-one, 4-methyl-	> 5000 mg/kg	> 2000 mg/kg	Believed to be practically non-toxic

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

ECTOTOXICOLOGICAL INFORMATION: Polymeric MDI: LC₅₀ (Zebra Fish) >1000 mg/L. EC₅₀ (Daphnia magna) (24 hour) >1000 mg/L. EC₅₀ (E. Coli) >100 mg/L.

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 should be decontaminated and either passed to an approved drum recycler or destroyed.

RCRA HAZARD CLASS: If discarded as purchased, 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

Not regulated when shipped below reportable quantity.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute, Chronic, Reactive, Sensitizing

313 REPORTABLE INGREDIENTS: Diisocyanate Compounds

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

MDI has a RQ of 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: 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 (40 CFR 261.20-24).

16. OTHER INFORMATION

HMIS RATING: Health - *2, Flammability - 1, 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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