

MATERIAL SAFETY DATA SHEET

Ecocoat Interior/Exterior Latex Paint

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ecocoat Interior/Exterior Latex Paint
Product Use: Recycled / rebleded water-based coating consisting of post consumer recyclable latex paint.
Manufacturer/Supplier: Calibre Environmental Ltd.
6224-29 Street SE
Calgary, Alberta T2C 1W3
Phone Number: (403) 287-7726
1-888-287-7728 (toll-free)
Emergency Phone: CHEMTREC: Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)
Date of Preparation: June 15, 2010

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin, cause irritation of skin, eye or respiratory tract.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause stomach distress, nausea, vomiting, gastrointestinal irritation, diarrhea, dizziness and weakness. May cause minor irritation to the nose and throat.

Medical Conditions Aggravated By Exposure: Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Titanium dioxide	13463-67-7	7 - 13
Silica, crystalline, cristobalite	14464-46-1	1 - 5
Silica, amorphous, fumed	7631-86-9	1 - 5

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Silica, amorphous, diatomaceous earth
Ethylene glycol

68855-54-9
107-21-1

1 - 5
0.1 - 1

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of soap and water. Call a physician if irritation develops and persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If conscious (and not in immediate risk of losing consciousness) and capable of swallowing, rinse mouth thoroughly with water and then drink two or three glasses of water. Do not substitute other liquid. Get medical attention immediately.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Closed containers may explode when heated to extreme temperatures. Spills of this material are a slipping hazard. Firefighters should wear full protective clothing including self contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Scoop up material and place in a disposal container. Spills of this material are a slipping hazard.

Other Information: Not available.

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Section 7: HANDLING AND STORAGE

Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Always wear adequate protective equipment. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store away from sources of heat and keep away from direct sunlight. Keep from freezing.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Titanium dioxide	10 mg/m ³	10 mg/m ³
	$\frac{1}{2}((10 \text{ mg/m}^3)/(\% \text{SiO}_2+2) \text{ TWA (resp)});$ $((30 \text{ mg/m}^3)/(\% \text{SiO}_2+2) \text{ TWA (total)});$	
Silica, crystalline, cristobalite	$((250)/(\% \text{SiO}_2+5) \text{ mppcf TWA (resp)})$	0.025 mg/m ³
Silica, amorphous, fumed	80 mg/m ³ / $\% \text{SiO}_2$	10 mg/m ³
Silica, amorphous, diatomaceous earth	80 mg/m ³ / $\% \text{SiO}_2$	10 mg/m ³
Ethylene glycol	Not available.	50 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable rubber gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Spray painting use mist/dust particulate respirator. Poor or no ventilation use organic vapour respirator.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thick liquid.
Color:	White or color.
Odour:	Slight ammonia smell.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	7.5 - 8.5
Viscosity:	89 – 104 KU
Freezing Point:	~ 0°C (~ 32°F)
Boiling Point:	~ 100°C (~ 212°F)

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Flash Point:	Not available.
Evaporation Rate:	Slower than n-butyl acetate.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	> 1 (Air = 1)
Specific Gravity:	1.20 - 1.35
Solubility in Water:	Complete.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content:	< 200 g/L

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Heat. Incompatible materials. Corrosive atmospheres. Poor ventilation. Excessive aging.

Incompatible Materials: Alkaline material, acids, oxidizing agents

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Titanium dioxide	>10000 mg/kg, rat	Not available.
Silica, crystalline, cristobalite	Not available.	Not available.
Silica, amorphous, fumed	5000 mg/kg, rat	Not available.
Silica, amorphous, diatomaceous earth	Not available.	Not available.
Ethylene glycol	4000 mg/kg, rat	> 200 mg/m ³ 4hr, rat

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea, vomiting, gastrointestinal irritation, diarrhea, dizziness and weakness. .

Inhalation: May cause respiratory tract irritation. May cause irritation to nose and throat.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Hazardous by WHMIS/OSHA criteria.

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Ingredient

Titanium dioxide
Silica, crystalline, cristobalite
Silica, amorphous, fumed
Silica, amorphous, diatomaceous earth
Ethylene glycol

Chemical Listed as Carcinogen or Potential Carcinogen *

G-A4, I-2B
G-A2F, I-1, N-1, CP65
I-3, N-1, CP65
Not listed.
G-A4

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

Not regulated

TDG Classification

Not regulated

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

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SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Titanium dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Silica, crystalline, cristobalite	Not listed.	Not listed.	Not listed.	Not listed.
Silica, amorphous, fumed	Not listed.	Not listed.	Not listed.	Not listed.
Silica, amorphous, diatomaceous earth	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene glycol	Not listed.	Not listed.	5,000	313

State Regulations

California Proposition 65:

This product contains a chemical known to the state of California to cause cancer.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Titanium dioxide	DSL	Yes.
Silica, crystalline, cristobalite	DSL	Yes.
Silica, amorphous, fumed	DSL	Yes.
Silica, amorphous, diatomaceous earth	DSL	Yes.
Ethylene glycol	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 2* **Flammability - 0** **Physical Hazard - 0** **PPE – G**

NFPA - National Fire Protection Association:

Health - 2 **Fire - 0** **Reactivity - 0**

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2A - Chronic Toxic Effects
- Class D2B - Skin/Eye Irritant

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

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Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use. No warranty about the accuracy of these sources is made and Calibre Environmental Ltd. will not be held liable for any claims relating to the use of this information and/or recommendations.

Due to the nature of recycled paint this product contains materials coming from different sources, as such Calibre Environmental Ltd. cannot guarantee quantity of a specific colour.

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