

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: EP-21 Release Coating
Product Use: Coating.
Manufacturer/Supplier: E Paint Company
25 Research Road
Falmouth, MA 02536
Phone Number: (800) 258-5998
Emergency Phone: CHEM TREC (800) 424-9300
Date of Preparation: July 7, 2011

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

FLAMMABLE. VERY TOXIC IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

Potential Health Effects: See Section 11 for more information.

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

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause sensitization by skin contact.

Ingestion: Very toxic if swallowed. May cause stomach distress, nausea or vomiting. Harmful: may cause lung damage if swallowed.

Inhalation: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation. Prolonged occupational overexposure to this material (or one its components) has been found to have kidney, liver, hearing, heart, and embryo/fetotoxic effects in laboratory animals. Prolonged occupational overexposure to solvents has been associated with brain and nervous system damage.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause headache, dizziness, uncoordination, nausea, fatigue, shortness of breath, loss of consciousness, and coma. Symptoms may include, gastrointestinal irritation, central nervous system depression, and lung inflammation.

Medical Conditions Aggravated By Exposure: Persons with a history of chronic respiratory disease, skin disease or central nervous system disorders may be at risk for worsening their condition from exposure to this product.

Target Organs: Skin, eyes, gastrointestinal tract and 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.

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Zinc oxide	1314-13-2	40 - 70
Xylene	1330-20-7	5 - 10
Rosin	8050-09-7	10 - 30
Solvent naphtha (petroleum), heavy arom.	64742-94-5	7 - 13
Ethylbenzene	100-41-4	< 0.1
Polyamine amide salt	HMIRC# 6722	0.5 - 1.5

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.
- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention or call poison control.

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: Flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

Products of Combustion: Oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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. Eliminate sources of ignition.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). 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. Provide ventilation.

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. 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. Do not store at temperatures above 32 °C / 90 °F.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Zinc oxide	5 mg/m ³ TWA (fume); 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (resp)	2 mg/m ³ TWA (resp)
Xylene	100 ppm	100 ppm
Rosin	Not available.	Not available.
Solvent naphtha (petroleum), heavy arom.	Not available.	Not available.
Ethylbenzene	100 ppm	100 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: A NIOSH approved particulate respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pigmented liquid.
Color:	Not available.
Odour:	Aromatic.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	Not available.
Viscosity:	Not available.

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

Freezing Point:	Not available.
Boiling Point:	~ 137.22 °C (~ 278.996 °F) @ 760 mm Hg
Flash Point:	~ 28 °C (~ 82.4 °F)
Evaporation Rate:	N-Butyl Acetate = 11.64
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	3.5
Specific Gravity:	1.76
Solubility in Water:	Not available.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Acids. Bases. Oxidizers.

Hazardous Decomposition Products: 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
Zinc oxide	> 5000 mg/kg, rat	2500 mg/m ³ , mouse
Xylene	4300 mg/kg, rat	5000 ppm 4hr, rat
Rosin	3 mg/kg, rat	Not available.
Solvent naphtha (petroleum), heavy arom.	> 5000 mg/kg, rat	> 590 mg/m ³ 4hr, rat
Ethylbenzene	3500 mg/kg, rat	17.2 mg/L 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. May cause sensitization by skin contact. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: Very toxic if swallowed. Symptoms may include, gastrointestinal irritation, central nervous system depression, and lung inflammation. Harmful: may cause lung damage if swallowed.

Inhalation: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause headache, dizziness, uncoordination, nausea, fatigue, shortness of breath, loss of consciousness, and coma.

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen *

Zinc oxide

Not listed.

Xylene

Not listed.

Rosin

Not listed.

Solvent naphtha (petroleum), heavy arom.

Not listed.

Ethylbenzene

G-A3, I-2B, CP65

* 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: Hazardous by WHMIS/OSHA criteria.

Skin Sensitization: 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

UN1263, Flammable Liquid, Class 3, PG III

ORM-D (\leq 5L)

TDG Classification

UN1263, Flammable Liquid, Class 3, PG III

Limited Quantity (\leq 5L)

MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

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).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Zinc oxide	Not listed.	Not listed.	Not listed.	Not listed.
Xylene	Not listed.	Not listed.	100	313
Rosin	Not listed.	Not listed.	Not listed.	Not listed.
Solvent naphtha (petroleum), heavy arom.	Not listed.	Not listed.	Not listed.	Not listed.
Ethylbenzene	Not listed.	Not listed.	1,000	313

State Regulations

California Proposition 65:

This product contains a chemical or chemicals known to the State of California to cause cancer.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Zinc oxide	DSL	Yes.
Xylene	DSL	Yes.
Rosin	DSL	Yes.
Solvent naphtha (petroleum), heavy arom.	DSL	Yes.
Ethylbenzene	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 3* Flammability - 3 Physical Hazard - 0 PPE - H

NFPA - National Fire Protection Association:

Health - 3 Fire - 3 Reactivity - 0

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

WHMIS Classification(s):

- Class B2 - Flammable Liquid
- Class D1A - Very Toxic Material
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2A - Respiratory Sensitization
- Class D2B - Skin Sensitization
- Class D2B - Skin/Eye Irritant

WHMIS Hazard Symbols:



MATERIAL SAFETY DATA SHEET

EP-21 Release Coating

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.

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.

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