

MATERIAL SAFETY DATA SHEET

ESCO CORPORATION
Portland, OR 97210
1-800-523-3795

Page: 1 of 3 (K-832R)
Date Prepared: 07/02/14
Revision Number: 5

Section 1 - Material Identification

Product Name: ECO-BAK CRUSHER BACKING
(K-832)

Product Type: Epoxy Resin Compound (Non-Hazardous Backing)

Emergency Number (s): (800) 255-3924 24 hrs. (Continental U.S.)
(813) 248-0585 24 hrs. (Outside Continental U.S.)

Revision Notes: Annual Updating

Section 2 - Hazardous Ingredients

<u>#</u>	<u>wt %</u>	<u>CAS Number</u>	<u>Chemical Name</u>
1.	> 1 %	Trade Secret	Epoxy Resin

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E

N/E = Not Established

Section 3 - Health Hazards

EMERGENCY OVERVIEW

HMIS HEALTH RATING: 2 **FLAMMABILITY:** 1 **REACTIVITY:** 0

HMIS Hazard Rating: **Least - 0** **Slight - 1** **Moderate - 2** **High - 3** **Extreme - 4**

A brown liquid with a strong "sweet" odor. Causes eye and skin irritation. Can burn in fire, releasing possible hazardous vapors, gases and fumes. Do not torch or weld on cured epoxy. Hazardous fumes and vapors may be released.

Routes of Exposure: Eye Contact, Skin Contact, Ingestion.

Health Hazards: May cause eye irritation. May cause skin sensitization. Moderate skin irritant.

Target Organs: Eyes, Skin.

Signs and Symptoms of Exposure (Acute Effects): Contact with skin or eyes causes irritation, redness and discomfort.

Signs and Symptoms of Exposure (Possible Longer Term Effects): Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposure may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

Medical Conditions Generally Aggravated by Exposure: Eye disease, skin disorders and allergies.

Carcinogens under OSHA, ACGIH, NTP, IARC, other: This product contains no carcinogens in concentrations of 0.1 percent or greater.

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Section 4 - First Aid

Eye Contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, seek medical attention. If contact with hot product occurs, immediately flush with cool water for 15 minutes. Carefully remove clothing; if clothing is stuck to a burn area do not pull it off, but cut around it. Cover burn area with a clean material. Get medical attention immediately.

Inhalation: Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

Ingestion: If swallowed, call physician immediately. Induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5 - Fire and Explosion Data

Flash Point (closed cup): > 200 °F

Upper Explosion Limit (UEL): No data

Auto Ignition Temperature: No data

Lower Explosion Limit (LEL): No data

Fire Hazard Classification (OSHA/NFPA): This product is not considered flammable nor combustible, but will burn if involved in a fire.

Extinguishing Media: Foam, Carbon Dioxide (CO2), or dry chemical.

Special Fire Fighting Procedures: Keep personnel removed from area and upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (SCBA). Cool fire exposed containers with water spray.

Unusual Fire and Explosion Hazards: Hazardous combustion products may be present. Combustion may form aldehydes, nitrous oxides, carbon monoxide (CO), and carbon dioxide (CO2).

Section 6 - Accidental Release Measures

Containment Techniques (Removal of ignition sources, diking, etc.): Stop the leak, if possible. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

Clean-Up Procedures: Spread absorbent material over area. Wipe or scrape up material. Dispose of material in accordance with local, state and federal regulations. Wash area with soap and water. Prevent washings from entering sewers or waterways.

Other Emergency Advice: Wear protective clothing, boots, gloves, respirator, and eye protection.

Section 7 - Handling and Storage

Storage: Store in a cool (60-80 °F), dry, ventilated place. Crystallization may occur if storage temperature drops below 55 °F for a prolonged period of time. Store in closed containers.

Handling: Avoid contact with skin, eyes, or clothing. When handling, do not eat, drink, or smoke.

Other Precautions: Wash thoroughly after handling. Remove contaminated clothing and gear. Decontaminate. Destroy leather or any articles which can not be decontaminated.

Section 8 - Personal Protection/Exposure Controls

Eye Protection: Chemical safety goggles recommended. Contact lenses should not be worn while using this product.

Hand Protection: Chemical resistant gloves recommended, such as neoprene or nitrite rubber.

Respiratory Protection: Not necessary under most operating conditions. NIOSH approved organic vapor respirator should be used in confined areas, or when conditions cause high vapor concentrations. If the percent oxygen is below normal then use self-contained breathing apparatus.

Protective Clothing: Clean, body covering clothing should be utilized.

Work and Hygienic Practices: Eye wash stations and safety showers should be easily accessible.

Section 9 - Typical Physical and Chemical Properties

Physical Form: Liquid

Vapor Density: Heavier than air

Color: Tan

Boiling Point: > 200 °F

Odor: Sweet

Melting Point: Not Applicable

pH: No Data

Solubility in Water: Negligible

Vapor Pressure: No Data

Specific Gravity: 1.80

Section 10 - Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid (if unstable): None

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Section 10 - Stability and Reactivity (con't.)

Incompatibility (Materials to Avoid): Acids, strong oxidizing agents.
Hazardous Decomposition Products: None
Hazardous Polymerization: Contact with epoxy hardeners under uncontrolled conditions. May release excess heat and vapors.

Section 11 - Toxicological Properties

Acute Oral Toxicity (LD50, RAT): No data available.
Acute Dermal Toxicity (LD50, RABBIT): No data available.
Acute Inhalation Toxicity (LC50, RAT): No data available.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Waste Disposal: This material does not contain any VOC's (volatile organic compounds). Dispose of material in accordance with applicable, local, state, and federal laws and regulations. The state and local regulations and laws may differ from federal regulations, and laws may change or be reinterpreted. This information only applies to the material as manufactured. Processing, use, or contamination may make the information in appropriate, inaccurate, or incomplete. Responsibility for proper waste disposal is with the owner of the waste.

Section 14 - Transport Information

DOT Non-Bulk Shipping Name:	Resin compound - not regulated	UN#:	Not regulated
DOT Bulk Shipping Name:	Resin compound - not regulated	Packing Group:	Not regulated
Technical Shipping Name:	NMFC Item 46030, Class 55	IMO Shipping Data:	Resin compound - not regulated
DOT Hazard Class:	Not regulated	ICAO/IATA Shipping Data:	Resin compound - not regulated

Section 15 - Regulatory Information

US FEDERAL REGULATIONS:

Toxic Substances Control Act (TSCA): All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory or are not required to be listed on the TSCA Inventory.

OSHA (29CFR1910.1200) Hazard Class(es): Irritant. Sensitizer

EPCRA Section 312 (40CFR370) Hazard Classes: Immediate Health Hazard. Delayed Health Hazard.

EPCRA Section 313 (40CFR372): Toxic chemicals above "de minimus" level (% by weight): Ethylene glycol (<1%)

STATE REGULATIONS:

California Proposition 65 Substances: (components known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"). None

INTERNATIONAL REGULATIONS

Canada: **WHMIS Hazard Classification:** Class D, division 2B
WHMIS Risk Phrases: Eye or skin irritant. Skin sensitizer.
WHMIS Symbols: Stylized T

Section 16 - Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither ESCO Corporation nor any of its agents assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

Revision Date: 07/02/14

Replaces Revision Dated: 08/30/12

Revised By: Bill Simek

Title: Laboratory Manager

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ESCO CORPORATION
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Section 1 - Material Identification

Product Name: B-120-J99
Product Type: Epoxy Hardener Compound (Non-Hazardous Backing)
Emergency Number (s): (800) 255-3924 24 hrs. (Continental U.S.)
(813) 248-0585 24 hrs. (Outside Continental U.S.)
Revision Notes: None

Section 2 - Hazardous Ingredients

<u>#</u>	<u>wt %</u>	<u>CAS Number</u>	<u>Chemical Name</u>
1.	> 1 %	Trade Secret	Aliphatic Amine
2.	< 10 %	108-95-2	Phenol

OSHA & ACGIH EXPOSURE LIMITS

	TWA		STEL		CEILING	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1. OSHA	N/E	N/E	N/E	N/E	N/E	N/E
ACGIH	N/E	N/E	N/E	N/E	N/E	N/E
2. OSHA	5.0	19.0	N/E	N/E	N/E	N/E
ACGIH	5.0	19.0	N/E	N/E	N/E	N/E

N/E = Not Established

Section 3 - Health Hazards**EMERGENCY OVERVIEW**

HMIS HEALTH RATING: 2

FLAMMABILITY: 1

REACTIVITY: 0

HMIS Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4

A blue liquid with an amine odor. Causes eye and skin irritation. Can burn in fire, releasing possible hazardous vapors, gases and fumes. Do not torch or weld on cured epoxy. Hazardous fumes and vapors may be released.

Routes of Exposure: Eye Contact, Skin Contact, Ingestion.

Health Hazards: Causes eye irritation. May cause skin sensitization. Moderate skin irritant.

Target Organs: Eyes, Skin.

Signs and Symptoms of Exposure (Acute Effects): Contact with skin or eyes causes irritation, redness and discomfort.

Signs and Symptoms of Exposure (Possible Longer Term Effects): Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposure may result in adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion).

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Inhalation: Remove victim to fresh air and provide oxygen. If breathing is difficult, seek medical attention.

Ingestion: If swallowed, call physician immediately. Induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5 - Fire and Explosion Data

Flash Point (closed cup): > 200 °F

Upper Explosion Limit (UEL): No data

Auto Ignition Temperature: No data

Lower Explosion Limit (LEL): No data

Fire Hazard Classification (OSHA/NFPA): This product is not considered flammable or combustible, but will burn if involved in a fire.

Extinguishing Media: Foam, Carbon Dioxide (CO₂), or dry chemical.

Special Fire Fighting Procedures: Keep personnel removed from area and upwind of fire. Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (SCBA). Cool fire exposed containers with water spray.

Unusual Fire and Explosion Hazards: Hazardous combustion products may be present. Combustion may form aldehydes, nitrous oxides, carbon monoxide (CO), and carbon dioxide (CO₂).

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Clean-Up Procedures: Spread absorbent material over area. Wipe or scrape up material. Dispose of material in accordance with local, state and federal regulations. Wash area with soap and water. Prevent washings from entering sewers or waterways.

Other Emergency Advice: Wear protective clothing, boots, gloves, respirator, and eye protection.

Section 7 - Handling and Storage

Storage: Store in a cool (60-80 °F), dry, ventilated place. Store in closed containers.

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Eye Protection: Chemical safety goggles recommended. Contact lenses should not be worn while using this product.

Hand Protection: Chemical resistant gloves recommended, such as neoprene or nitrite rubber.

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Protective Clothing: Clean, body covering clothing should be utilized.

Work and Hygienic Practices: Eye wash stations and safety showers should be easily accessible.

Section 9 - Typical Physical and Chemical Properties

Physical Form: Liquid

Vapor Density: Heavier than air

Color: Blue

Boiling Point: > 200 °F

Odor: Amine

Melting Point: Not Applicable

pH: No Data

Solubility in Water: Negligible

Vapor Pressure: No Data

Specific Gravity: 1.04

Section 10 - Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid (if unstable): None

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DOT Hazard Class:	Not regulated	ICAO/IATA Shipping Data:	Epoxy Hardener - not regulated

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Revised By: Bill Simek

Title: Laboratory Manager