

1 Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:
Railseat Repair Epoxy A

Type: 4-5

Grade: 1
Class: D, E
MSDS Date of Preparation: Revised 1/2005

Manufacturer:
Encore Rail Systems
2350 W Midway Blvd
Broomfield, CO 80020
1-866-712-7622

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Epoxy Resin	9003-36-5	100%

3. HAZARDS IDENTIFICATION

Yellow viscous liquid with a slight epoxy odor.

EMERGENCY OVERVIEW:

May cause eye and skin irritation. May cause skin sensitization.

Refer to Section 11 for detailed health information.

4. FIRST AID MEASURES

EYE: Exposed eyes should be immediately flushed with copious amounts of water using a steady stream for a minimum of 15 minutes. If irritation, pain, swelling or tearing persist, seek medical attention.

SKIN: Remove contaminated clothing immediately. Wash all affected and exposed areas with soap and water. If skin irritation or redness persists seek medical attention. Discard or decontaminate contaminated clothing before reuse.

INGESTION: Get immediate medical attention by calling a Poison Control Center, or hospital emergency room. If medical advice cannot be obtained, then take the person and product to the nearest medical emergency treatment center or hospital. Rinse mouth with water. Give two 8-ounce glasses of water. Never give anything by mouth to a person who is unconscious or drowsy.

INHALATION: If symptoms of exposure develop, remove to fresh air. If breathing becomes difficult, have a qualified individual administer oxygen. Administer artificial respiration if breathing has stopped. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: 417°F (214°C)

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: Not applicable

UPPER FLAMMABLE LIMIT: Not applicable

AUTOIGNITION TEMPERATURE: 860°F (460°C)

EXTINGUISHING MEDIA: Use water fog, carbon dioxide, alcohol foam or dry chemical. Do not use solid stream of water. Cool fire exposed containers with water.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Decomposition products may be irritating.

FIRE-FIGHTING INSTRUCTIONS: Firefighters should use self-contained breathing apparatus and protective clothing.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide and hydrogen chloride.

6. ACCIDENTAL RELEASE MEASURES

Evacuate all unprotected personnel. Wear appropriate personal protective equipment (see section 8). Ventilate spill site. Contain spilled liquid and collect with inert absorbent for disposal. Prevent liquid from entering watercourses, sewers and natural waterways. Report releases to authorities as required.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep containers tightly closed when not in use.

Storage: Store in a cool, dry, well-ventilated location away from incompatible materials. Keep containers closed when not in use.

Empty containers retain product residues and may be dangerous. Never cut, weld, drill, grind, etc. on or near containers, even empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

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Component	Exposure Limit.	Source
Epoxy Resin	None Established	ACGIH/OSHA

ENGINEERING CONTROLS: Use adequate general or mechanical ventilation such as local exhaust to minimize airborne exposure levels.

RESPIRATORY PROTECTION: For operations where vapors or mists are generated and are not adequately controlled by engineering controls or while engineering controls are being installed, a NIOSH or local authority approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

SKIN PROTECTION: Impervious gloves such as butyl or nitrile rubber should be worn to avoid skin contact.

EYE PROTECTION: Chemical safety goggles recommended to prevent eye contact.

OTHER: Impervious protective clothing as needed to prevent skin contact. A safety shower and eye wash facility must be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Yellow viscous liquid with a slight epoxy odor.

BOILING POINT: Greater than 392°F (>200°C)

FREEZING POINT: Not available

SPECIFIC GRAVITY: 1.17-1.19

VAPOR PRESSURE: <0.1 mmHg @ 20°C

VAPOR DENSITY: Not determined

SOLUBILITY IN WATER: Insoluble

pH: Not available

OCTANOL/WATER COEFFICIENT: Not available

VOC CONTENT: Not determined

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal storage and handling conditions.

CONDITIONS TO AVOID: Avoid excessive heat, sparks and open flames.

INCOMPATIBILITY: May react violently with bases, alcohols, amines and organic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and hydrogen chloride.

HAZARDOUS POLYMERIZATION: Will occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

INGESTION: Swallowing product may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

INHALATION: Vapors and mists may cause coughing and upper respiratory tract irritation

EYE: May cause irritation with redness, tearing and swelling.

SKIN: May cause irritation. May cause skin sensitization.

CHRONIC EFFECTS: None known.

CARCINOGENICITY: None of the components of this product are listed as carcinogens or suspected carcinogens by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE This material may aggravate persons with preexisting eye and skin disorders.

Acute Toxicity Values

Epoxy resin: Oral rat LD50 23,800 mg/kg

Skin rabbit LD50 >2,000 mg/kg

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS Dispose in accordance with current local, state and federal regulations.

14. TRANSPORT INFORMATION

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:

DOT Shipping Name: Not Regulated

DOT Hazard Class: Not applicable

UN Number: Not applicable

DOT Labels Required (49CFR172.101): Not applicable

Hazardous Substance (49CFR172.101): None

Reportable Quantity: Not applicable

IATA Shipping Name: Not Regulated

IATA Hazard Class: Not applicable

UN Number: Not applicable

IATA Hazard Labels Required: None

15. REGULATORY INFORMATION

U.S. Federal Regulations

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CERCLA 103 Reportable Quantity: This product is not subject to CERCLA release reporting requirements. Many states have more stringent reporting requirements. Report spills and other releases as required under federal, state and local regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute Health, Chronic Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None.

US Toxic Substances Control Act: All of the components of this product are listed on the EPA TSCA Inventory.

State Regulations:

California Proposition 65: This product may contain the following chemicals regulated under California Proposition 65: None known

International Regulations

Australian Inventory Of Chemical Substances: All of the components of this product are listed on the AICS Inventory.

Canadian WHMIS Classification: Class D-2-B (Toxic material causing other chronic effects)

Canadian CEPA: All of the components of this product are listed on the Canadian DSL.

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

European Inventory Of Commercial Chemical Substances: All of the components of this product are listed on the EINECS Inventory.

Japan MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Korean Chemical Inventory: All of the components are listed on the Korean Existing Chemical List.

Philippine Chemical Inventory: All of the components are listed on the Philippine Inventory of Chemical and Chemical Substances List.

16. OTHER INFORMATION

NFPA RATING: Health = 1 Fire = 1 Reactivity = 0

HMIS RATING: Health = 1* Fire = 1 Reactivity = 0