

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

## SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME : Encore Rail Systems, Inc.  
 IDENTIFICATION NUMBER: 12000LV RESIN/ 20048  
 CLASS : Epoxy Resin

## SUPPLIER:

Encore Rail Systems, Inc.  
 2300 West Midway Blvd.  
 Broomfield, CO 80020

EMERGENCY: 800-424-9300 CHEMTREC

INFORMATION: 1-866-712-7622

DATE GENERATED: 07/06/2015

## SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Causes skin irritation. Prolonged contact with eyes may cause injury. Strong skin allergen. Toxic to aquatic organisms.

## PRIMARY ROUTES OF ENTRY:

## GHS LABEL INFORMATION:

PICTOGRAM:



SIGNAL WORD: DANGER!

## HAZARD LABEL STATEMENTS:

H302 Harmful if swallowed  
 H315 Causes skin irritation  
 H317 May cause an allergic skin reaction  
 H319 Causes serious eye irritation  
 H373 May cause damage to organs through prolonged or repeated exposure  
 H411 Toxic to aquatic life with long lasting effects

## PRECAUTIONARY STATEMENTS:

P264 Wash all contact areas thoroughly after handling.  
 P272 + P363 Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves and eye protection.  
 P501 Dispose of container and unused contents in accordance with state and local regulations.  
 P302 + P352 + P332 + P313 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.  
 P305 + P351 + P338 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	WT %
25068-38-6	Bisphenol-A Epoxy resin	50 - 100%
15625-89-5	Trimethylolpropane triacrylate	10 - 20%

SECTION 4 - FIRST AID MEASURES

**EYE CONTACT:** Remove contact lenses if safe to do so. Flush eye with water for 15 minutes. Get immediate medical attention.

**SKIN CONTACT:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INHALATION:** If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** ALCOHOL FOAM, CO2, DRY CHEMICAL, FOAM, WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

**SPECIAL FIREFIGHTING PROCEDURES:** Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** SMALL SPILL - Wear gloves and goggles. See Section 8 for type. LARGE SPILL - Wear gloves, synthetic apron, and goggles. See Section 8 for type.

**ENVIRONMENTAL PRECAUTIONS:** Prevent entry into drains and/or waterways. Keep off of soil.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Mark area and keep unnecessary personnel away from spill area. Reclaim clean material. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations. Contact manufacturer for further instructions.

SECTION 7 - HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Contaminated leather articles should be disposed of. If product is heated, process with local ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. DO NOT reuse empty container without commercial clean or recondition. FOR INDUSTRIAL USE ONLY.

**STORAGE:** Store indoors in a cool dry place under ambient conditions. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS**

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CAS NUMBER	ACGIH		OSHA		SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	
25068-38-6	N.E.	N.E.	N.E.	N.E.	NO
15625-89-5	N.E.	N.E.	N.E.	N.E.	NO

\* (TD) = Total Dust      \* (RD) = Respirable Dust



**ACUTE EFFECTS - SKIN:**

Contact causes skin irritation with redness, swelling and scaling.  
May be absorbed through skin in harmful amounts.  
Repeated or prolonged contact may cause sensitization.

**ACUTE EFFECTS - INHALATION:**

High vapor concentrations are irritating to respiratory tract.

**ACUTE EFFECTS - INGESTION:**

May cause nausea and vomiting.

**CHRONIC OVEREXPOSURE/OTHER INFORMATION:** \*Preexisting dermatological conditions may be aggravated by exposure or contact.

SECTION 12 - ECOLOGICAL INFORMATION
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**COMPONENT ECOLOGICAL INFORMATION:**

----- CHEMICAL NAME -----	----- TEST DATA -----
Bisphenol-A Epoxy resin	LC50 (Rainbow trout) (96 h): 2 mg/L
EC50 (Water Flea) (48 h): 1.8 mg/L	
ErC50 (Fresh water algae) (72 h): 11 mg/L	
IC50 (Bacteria) (18 h): > 42.6 mg/L	
Trimethylolpropane triacrylate	No Information

**SUMMARY OF ECOLOGICAL INFORMATION:**

**BIOACCUMULATION POTENTIAL:** No information indicating bioaccumulation

**PERSISTENCE AND DEGRADABILITY:** No information indicating persistence or degradability

**AQUATIC TOXICITY:** H411 Toxic to aquatic life with long lasting effects

SECTION 13 - DISPOSAL CONSIDERATIONS
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**DISPOSAL METHOD:** Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. For small amounts, mix resin and hardener according to product directions and allow to harden. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit. Material "as sold" is not regulated as a hazardous waste under federal RCRA regulations. DO NOT landfill free liquid. Fuels blending or incineration of free liquid recommended if permitted.

SECTION 14 - TRANSPORTATION INFORMATION
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**INTERNATIONAL SHIPPING NAME:** Not considered a dangerous good for transport by ground in the U.S.

Not considered a Dangerous Good in containers 5L or less

**MARINE/AIR INTERNATIONAL:** Environmentally Hazardous Substance, Liquid, nos  
(Bisphenol-A Epoxy)

ID NUMBER: UN3082

PACKING GROUP: III

PRIMARY HAZARD CLASS: 9

HAZARD SUBCLASS: N/A

INTERNATIONAL EMS NO: F-A, S-F, 9L

NA EMERGENCY RESPONSE GUIDE NO: N/A

SECTION 15 - REGULATORY INFORMATION
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**CALIFORNIA PROPOSITION 65 STATEMENT:** NONE

**CERCLA - SARA HAZARD CATEGORY:**

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD

## SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

----- CHEMICAL NAME -----  
None

## TOXIC SUBSTANCES CONTROL ACT:

COMPONENTS SUBJECT TO SECTION 4 TESTING/SNUR: None

SECTION 8 INVENTORY: The chemical substances in this product are on the TSCA Section 8 Inventory.

SECTION 12(B) EXPORT REPORTING: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: none

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

COMPONENT RCRA CODES: NONE

CERCLA RQ VALUE (MINIMUM): NONE

RoHS SUBSTANCE(S): None added or known to be present.

ODS/MONTREAL PROTOCOL SUBSTANCE(S): None added or known to be present.

REACH Substance(s) of Very High Concern (SVHC): None

PRODUCT/TOTAL VOC (CALCULATED): 0 grams/ltr

COATING/REGULATORY VOC (less water and exempt solvents - calculated): \_\_\_0\_\_\_ g/l

SECTION 16 - OTHER INFORMATION
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NFPA/THIS RATINGS - HEALTH: 2      FLAMMABILITY: 1      REACTIVITY: 0

## ABBREVIATIONS:

N.A. - Not Applicable

N.E. - Not Established

N.D. - Not Determined

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Health and Safety Administration

TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs)

STEL = Short-Term Exposure Limit (15 min)

C = Ceiling Value

PEL = Permissible Exposure Limit

OEL = Occupational Exposure Limit

IDLH = Immediately Dangerous to Life and Health

DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

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