

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.
 2350 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
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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

EXPOSURE LIMITS

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

CAS NUMBER	OEL		IDLH	OTHER LIMIT (SOURCE)
	8 HR	15 MIN		
25068-38-6	N.E.	N.E.	N.E.	
15625-89-5	N.E.	N.E.	N.E.	

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

ENGINEERING CONTROLS: Local exhaust as needed to control vapor or dust levels to below lowest component safe exposure limit.

PERSONAL PROTECTIVE EQUIPMENT: Clean clothing to cover skin. Eye wash and safety shower.

RESPIRATORY PROTECTION: If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SKIN PROTECTION: Butyl rubber gloves. Nitrile gloves. Supported PVA gloves.

EYE PROTECTION: Chemical splash goggles.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (DEG C): 101
 AUTOIGNITION TEMPERATURE : No Data
 LOWER FLAMMABILITY/EXPLOSION LIMIT : No Data
 UPPER FLAMMABILITY/EXPLOSION LIMIT : No Data

PHYSICAL STATE : Liquid
 SPECIFIC GRAVITY : 1.152
 APPEARANCE : Clear, light yellow
 ODOR : Mild plastic
 ODOR THRESHOLD : No data
 SOLUBILITY IN H₂O : Negligible
 pH @ 100 % : N/A
 BOILING POINT : >100 deg C
 MELTING/FREEZE POINT: No Data
 VAPOR DENSITY : Heavier than Air
 VAPOR PRESSURE : No Data
 EVAPORATION RATE : Is slower than n-Butyl Acetate
 PARTITION COEFFICIENT (log Pow): No Data

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions.
INCOMPATIBILITY/MATERIALS TO AVOID: Strong bases or oxidants. Strong Lewis or mineral acids. Reaction with amines or mercaptans in large amounts and/or under uncontrolled conditions releases considerable heat and may release acrid fumes or smoke.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Harmful or noxious monomeric compounds.

HAZARDOUS REACTIONS: Will not occur under normal conditions.

CONDITIONS TO AVOID: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION

----- CHEMICAL NAME ----- TEST DATA -----
 Bisphenol-A Epoxy resin Dermal- LD50 (Rabbit): 23,000 mg/kg
 Inhalation- LD50 (Rat): >15,000 mg/kg
 Trimethylolpropane triacrylate Oral LD50 (rat) = 5709 mg/kg
 Dermal LD50 (rabbit) = 7050 mg/kg

ACUTE EFFECTS - EYE:

Severely irritating to the eyes. If not removed promptly, will injure eye tissue, which may result in permanent damage.

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

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

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

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

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

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.
