



MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: C.E.R. (Clear Epoxy Resin) - Part B	
Manufactured For: DYNACCO INC. P O Box 27 Monroe, WA 98272	Date of Latest Revision: Sept 1, 2012 Common Name: Epoxy Resin Hardener Chemical Family: Aliphatic Amine
Telephone: 1-360-794-8974	Health - 3 Flammability - 1 Reactivity - 0
24 Hour Emergency: ChemTel 800-255-3924	

SECTION 2: HAZARDOUS CHEMICALS

Components	CAS Number	Concentration
Paratertiarybutylphenol	98-54-4	< 50 %
Benzene-1,3-dimethaneamine (MXDA)	1477-55-0	< 30 %
Trimethylhexamethylenediamine (TMD)	25620-58-0	> 25 %
Nonylphenol	25154-52-3	<= 5 %

SECTION 3: HEALTH HAZARDS

ROUTES OF ENTRY: Ingestion, skin absorption, inhalation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Repeated and/or prolonged exposure may result in: Adverse skin effects (such as defatting, rash, irritation, or corrosion), adverse eye effects (such as conjunctivitis or corneal damage). Repeated and/or prolonged contact with the skin and eyes may cause an allergic reaction/sensitization. Asthma, neurological disorder.

SECTION 4: FIRST AID

EYES: Hold eyelids apart and immediately flush eyes with plenty of water for at least 30 minutes. Call a physician, preferably an eye specialist, if medical care is not promptly available, continue to irrigate for one hour

SKIN: Remove product and immediately flush affected area with water for at least 15 minutes followed by soap and water wash. Launder contaminated clothing before reuse. Contaminated leather wear should be discarded.

INHALATION: Move the patient at once to fresh air and call a physician. Keep patient absolutely quiet and start oxygen inhalation through suitable equipment.

INGESTION: Call physician immediately. DO NOT induce vomiting. Give large amounts of water or milk. Never give anything by mouth to an unconscious person. Transport to a medical facility.

SECTION 5: FIRE AND EXPLOSION DATA

FLASH POINT (method used)	FLAMMABILITY LIMITS	LEL	UEL
>230° F (110° C) (Pensky-Martin Closed Cup)	N/A	N/A	N/A

EXTINGUISHING MEDIA: Ignition will give rise to a Class B fire. In case of a fire use water spray.

SPECIAL FIRE FIGHTING PROCEDURES: Alcohol Foam, Carbon Dioxide (CO₂), dry chemical. Retain expended liquids from fire fighting for later disposal. Firefighters should wear butyl rubber boots, gloves, and body suits, and a self-contained breathing apparatus. Water spray is also useful in cooling fire-exposed tanks and in dispersing vapors.

UNUSUAL FIRE AND EXPLOSION HAZARDS: May generate toxic, irritating, or flammable combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides when burned.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate the space involved. Shut off or remove all ignition sources. Construct a dike to prevent spreading. Cover minor spills with sodium bisulfate to neutralize and reduce vapors. Spray with water. Place in metal containers for recovery or disposal. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from oxidizers, heat, and flames. Keep in cool, dry, ventilated storage and in closed containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Keep container closed. Avoid breathing of vapors. Handle in well-ventilated work space.

SECTION 8: PERSONAL PROTECTION AND EXPOSURE CONTROLS

RESPIRATORY PROTECTION: NIOSH approved cartridge mask for organic vapors. Use during repair and cleaning of equipment, during transfer or discharge of product.

VENTILATION: LOCAL EXHAUST: Adequate general and local.

PROTECTIVE GLOVES: Nitrile rubber gloves, neoprene gloves, butyl rubber, PUC, impervious gloves.

EYE PROTECTION: Chemical safety glasses. No contact lenses.

OTHER PROTECTIVE EQUIPMENT: Long-sleeved clothing. Impervious clothing or rubber suit depending on degree of potential exposure.

OTHER ENGINEERING CONTROLS: N/A

WORK PRACTICES: Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations

HYGIENIC PRACTICES: Wash at the end of each work shift and before eating, smoking, or using the toilet.

Promptly remove clothing that has become contaminated. Discard contaminated leather articles. Examine protective gloves before using. Discard if evidence is found of holes or cracks.

SECTION 9: TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid.

Color: Amber.

Odor: Fishy.

Relative density: 0.974 (water = 1)

Vapor pressure: < 10.34 mmHg at 21 °C

Density: 61.804 lb/ft³ (0.99 g/cm³) at 70 °F (21 °C)

pH: Alkaline.

Boiling point/range: 446 °F (230 °C)

Flash point: > 93.33 °C

Water solubility: < 0.1 g/l

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY (materials to avoid): Oxidizing agents (i.e. perchlorates, nitrates, etc.) Cleaning solutions.

SECTION 11: TOXICOLOGICAL PROPERTIES

ACUTE HEALTH HAZARD:

Ingestion: LD50 : 1,750 mg/kg

Species: Rat.

Inhalation: No data is available on the product itself.

Skin: LD50 : > 2,000 mg/kg



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Species: Rabbit.

Method: Estimated.

Eye irritation/corrosion: Severe eye irritation.

Acute dermal irritation/corrosion: Severe skin irritation., Corrosive to the skin of a rabbit.

Sensitization: May cause sensitization by skin contact.

CHRONIC HEALTH HAZARD:

The product or a component may be mutagenic, the data is inconclusive.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EFFECTS:

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components

Nonylphenol LC50 (96 h): 0.128 mg/l — Species: Fathead minnow (*Pimephales promelas*).

Toxicity to daphnia - Components

Nonylphenol EC50 (48 h): 0.0848 mg/l — Species: Daphnia

Nonylphenol EC50 (48 h): 0.19 mg/l — Species: Daphnia

Toxicity to other organisms: No data available.

Persistence and degradability

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

Bioaccumulation - Components

Nonylphenol Moderate bioaccumulation potential.

SECTION 13: DISPOSAL INFORMATION

WASTE DISPOSAL: Comply with all Federal, State, and Local regulations. Incineration is acceptable and the preferred method of disposal. However, nitrogen oxide emission controls may required to meet specifications.

Chemical and/or biological degradation is feasible. A suitable industrial or municipal waste treatment system can be used depending on the quality and quantity of waste being treated.

SECTION 14: TRANSPORT INFORMATION

UN2735 Amines, liquid, corrosive, N.O.S. Class/division 8, Packing group III, Label(s) 8

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS: (TSCA) All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory. OSHA Hazard Communication Standard (40CFR1910.1200) hazard class corrosive. EPA SARA Title III Section 312 hazard class Immediate Health Hazard. EPA SARA III Title III Section 313 toxic chemicals above "deminimis" level are 108-95-2 PHENOL at no more than 50%.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is based on data believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable regarding all current regulations.

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