

**1. Chemical Product and Contact Information**

Revised: 01/03/05

<b>Product Name:</b>	<b>QC Epoxide Hardener</b>	<b>Part Numbers:</b>
		<b>811-563-031</b>
<b>LECO Corporation</b>		<b>811-563-041</b>
<b>3000 Lakeview</b>		<b>811-563-106</b>
<b>St. Joseph, Michigan 49085</b>		<b>811-563-108</b>
<b>Information:</b>	<b>269-983-5531</b>	<b>Kit Numbers:</b>
<b>Chemtrec:</b>	<b>800-424-9300</b>	<b>811-563-130</b>
<b>(Chemtrec Int'l: 703-527-3887)</b>		<b>811-563-140</b>

**2. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS No.</u>	<u>OSHA PEL (mg/m<sup>3</sup>)</u>	<u>ACGIH TLV (mg/m<sup>3</sup>)</u>	<u>Typical % by Weight</u>
Benzene-1,3-Dimethaneamine	001477-55-0	Not estab.	Not estab.	5-10
Glycol Diamine	000929-59-9	Not estab.	Not estab.	5-10
TETA, reaction product with Propylene Oxide	026950-63-0	Not estab.	Not estab.	40-60
Trimethyl Hexamethylene Diamine	025620-58-0	Not estab.	Not estab.	10-15
Paratertiary Butyl Phenol	000098-54-4	Not estab.	Not estab.	5-10

**3. Hazard Identification****EMERGENCY OVERVIEW**

No unusual fire or spill hazard. Moderate health risk by contact with skin or eyes, inhalation or ingestion. Light yellow liquid with an amine odor.

**Potential Health Effects**

**EYES:** Product can cause severe eye irritation, swelling and/or chemical burn. Contact lenses should not be worn when working with this material.

**SKIN:** Skin contact may result in irritation or chemical burn.

**INHALATION:** Vapor is irritating to the upper respiratory system and mucous membranes.

**INGESTION:** Liquid causes damage to mucous membrane if swallowed.

**MEDICAL CONDITIONS AGGRAVATED:** Unknown

**CHRONIC OVEREXPOSURE:** Unknown.

**ACUTE OVEREXPOSURE:** Not available.

**CARCINOGENICITY:** None.

**P/N: 811-563-031**

**4. First Aid Measures**

**EYES:** Flush with generous amounts of water for at least 15 minutes. Get medical attention immediately.

**SKIN:** Immediately wash skin with soap and water. Wash contaminated clothing before reuse.

**INHALATION:** Remove victim to fresh air.

**INGESTION:** If swallowed, do not induce vomiting. Give large amounts of water. Call a physician. Treatment based on judgment of the physician in response to reaction of the patient.

**5. Fire Fighting Measures**

**FLAMMABLE PROPERTIES:** Non-flammable

Flash Point: > 200° F. Method Used: SETA

Flammable Limits (% by Volume in Air): Lower: None. Upper: None.

**AUTO-IGNITION TEMPERATURE:** Not available.

**EXTINGUISHING MEDIA:** Water, fog, Carbon Dioxide, foam, or dry chemical.

**FIREFIGHTING INSTRUCTIONS:** Do not enter confined fire space without full protective gear including a positive pressure, self-contained, NIOSH approved breathing apparatus. Cool fire exposed container with water to prevent pressure build-up and/or weakening of container structure.

**6. Accidental Release Measures**

**SMALL/LARGE SPILL:** Use cautious judgment when cleaning spills.

Small spills may be collected with absorbent material, such as clay or sand. Large spills should be diked and contained with absorbent materials. Flush area with water spray to remove residue. Dispose of flush legally.

**7. Handling and Storage**

**HANDLING:** Container, even those that have been emptied, can contain product residue. Handle in accordance with good industrial practices. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before use.

**STORAGE:** Store at ambient temperatures in well ventilated area. Avoid sparks, open flames and extreme heat. Store separately from amine curing agents. Protect container from physical damage.

**8. Exposure Controls/Personal Protection**

**ENGINEERING CONTROLS:** Use only with adequate ventilation. Local exhaust is recommended. Mechanical exhaust can be used as a back up system.

**RESPIRATORY PROTECTION:** Wear NIOSH approved respiratory protection where exposure limits are exceeded or in the absence of proper environmental control.

**SKIN AND HAND PROTECTION:** Chemical resistant gloves such as PVA.

**EYE AND FACE PROTECTION:** ANSI approved safety glasses with side shields or goggles.

**OTHER PROTECTIVE EQUIPMENT:** Chemical resistant clothing as required to minimize skin contact.

**9. Physical and Chemical Properties**

APPEARANCE: Light yellow liquid with an amine odor.  
 BOILING POINT: Not available  
 VAPOR PRESSURE (mm): < 0.1 mm Hg @ 20°C  
 VAPOR DENSITY (air = 1): > 1.0  
 SOLUBILITY IN WATER: Slightly.  
 SPECIFIC GRAVITY: 1.00  
 PERCENT VOLATILES by volume: 0%  
 EVAPORATION RATE (Butyl Acetate = 1): Not available.  
 PERCENT SOLID by weight: 100%

**10. Stability and Reactivity**

CHEMICAL STABILITY: Stable.  
 CONDITIONS TO AVOID: Avoid high temperatures, open flames and unscheduled contact with curing agents. Avoid mixing resin and hardener in uncontrollable quantities.  
 INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and bases, secondary aliphatic amines and mercaptans.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, by products may include oxides of nitrogen when burned.  
 HAZARDOUS POLYMERIZATION: Will not occur.

**11. Toxicological Information**

Not available.

**12. Ecological Information**

Not available.

**13. Disposal Consideration**

Dispose of material per all federal, state and local regulations.

**14. Transportation Information**

USA DOT: Amines, Liquid Corrosive, N.O.S. (Alkylamines), 8 (Corrosive), UN 2735, PG II,  
 IMDG Page No. 130.  
 Marine Pollutant: No

**15. Regulatory Information**

U.S. FEDERAL REGULATIONS:

TSCA STATUS: On Toxic Substance Control Inventory.  
CERCLA REPORTABLE QUANTITY: None.  
SARA TITLE III:  
Section 302 Extremely Hazardous Substances: None.  
Section 313 Toxic Chemicals: None.  
RCRA STATUS: Not regulated.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: D1B, D2B, E  
EINECS: All components of this product are on the European Inventory of Existing Commercial Chemical Substances.

**16. Other Information**

**Hazard Index: (0 - 4, 4 = Extreme)**  
**Health: 3      Fire: 1      Reactivity: 0**

Prepared By:

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*Information herein is given in good faith as authoritative and valid; however, no warranty, expressed or implied can be made.*