



# MATERIAL SAFETY DATA SHEET

**CHROMATE INDUSTRIAL CORPORATION®**

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL  
EMERGENCY**

Call ChemTrec day/night:  
**1-800-424-9300**

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** RED LION DUAL EPOXY FOR CNCRT ANCHOR  
**DATE PREPARED:** MAY 4, 2009  
**PART NUMBER:** 74534  
**PRODUCT TYPE:** EPOXY ADHESIVE / SEALANT  
**CHEMICAL FAMILY:** RESIN: EPOXIDE  
HARDENER: AMINE  
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## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	OTHER	STEL	CAS #
<i>RESIN:</i>						
EPOXIDE	N/D	N/D	N/D	N/D	N/D	N/D
<i>HARDENER:</i>						
DIBUTYL PHTHALATE	N/D	5mg/cum	N/D	N/D	N/D	N/D
4,4-METHYLENEDIANILINE	N/D	N/D	0.1ppm	N/D	N/D	N/D

\* An asterisk (\*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

## SECTION 3 – HAZARDS IDENTIFICATION

**NFPA RATING:** HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 SPECIFIC: 0  
**HMIS RATING:** HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 SPECIFIC: B

**PRIMARY ROUTES OF ENTRY:** Inhalation, Ingestion, Skin, Eyes

### EFFECTS OF OVEREXPOSURE:

**INHALATION:** RESIN: Irritation  
HARDENER: LC<sub>50</sub> harmful if inhaled.  
**INGESTION:** RESIN: LD<sub>50</sub> (rat): >5,000 mg/kg  
HARDENER: LD<sub>50</sub> (rate): 1,800 mg/mk. Harmful if swallowed.  
**SKIN CONTACT:** RESIN: Mild irritation (rabbits). May cause allergic skin reaction, dermatitis.  
HARDENER: LD<sub>50</sub> (rabbit): >6,000 mg/mk. Harmful if absorbed through skin.  
**EYE CONTACT:** Mild irritation (rabbits)

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

**RESIN:** Dermatitis.

**HARDENER:** Fever, chills, anorexia and vomiting. Toxic hepatitis, jaundice, hepatotoxic effects. Prolonged or repeated contact may cause serious delayed injury. Contains methylenedianiline which is a liver toxic and tested carcinogenic in laboratory test animals.

## SECTION 4 – FIRST AID MEASURES

### EMERGENCY FIRST AID PROCEDURES:

**INHALATION:** Remove to fresh air, give oxygen if breathing is difficult and consult a physician.  
**INGESTION:** If conscious, give large quantities of water or milk, induce vomiting and consulting a physician.  
**SKIN CONTACT:** Promptly wash thoroughly with mild soap and water.  
**EYE CONTACT:** Immediately flush eyes with water for at least 15 minutes and consult a physician.  
**OTHER:** Promptly remove wet contaminated non-impervious clothing, wash before using again. Destroy contaminated leather and absorbent shoes.

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 5 – FIRE - FIGHTING MEASURES**

**FLASH POINT (METHOD USE):** *RESIN:* 390°F (Closed Cup)      *HARDENER:* 300°F (Closed Cup)

**FLAMMABLE LIMITS:**      **LEL:** N/D      **UEL:** N/D

**EXTINGUISHING MEDIA:** Carbon dioxide, foam, dry chemical, water spray

**FIRE-FIGHTING PROCEDURES:** Use self-contained breathing apparatus

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Decomposition and combustion products may be toxic.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**SPILLS OR LEAKS:** Avoid all personal contact. Take up with absorbent material. Shovel into sealable containers. Flush contaminated area with water. In the event of spillage, scoop up with spade and place in disposable metal container. Disperse an equal amount of the epoxy, mix and allow to harden. The hardened chemical does not require special disposal instructions.

**SECTION 7 – HANDLING AND STORAGE**

**SPECIAL PRECAUTIONS:** Store in cool, dry area in closed containers. Keep containers closed when not in use. Stow away from food, food containers and clothing. Keep chemical products out of the sunshine and in a cool environment (60°F - 100°F).

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use with good ventilation. Wash after handling, before eating, drinking or smoking.

**RESPIRATORY:** Organic chemical cartridge respirator, if needed.

**SKIN PROTECTION:** Wear impervious protective gloves. Wear appropriate apparel to prevent skin contact.

**EYE PROTECTION:** Wear splash-proof chemical goggles.

**EXPOSURE GUIDELINES:** Good general mechanical ventilation and local exhaust.

**ENGINEERING CONTROLS:** No data available.

**SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES**

**BOILING POINT:** *HARDENER:* >392°F (200°C)

**VAPOR PRESSURE:** *HARDENER:* 2.5 x 10<sup>-5</sup> mmHg

**VAPOR DENSITY (AIR = 1):** N/D

**SOLUBILITY IN WATER:** *RESIN:* Insoluble

*HARDENER:* At 60°F (20°C) insoluble

**PERCENT VOLATILE BY VOLUME:** Nil

**APPEARANCE:** Resin: clear liquid Hardener: dark viscous liquid

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** *RESIN:* 1.16 at 77°F (25°C)

*HARDENER:* 1.13 at 77°F (25°C)

**MELTING POINT:** N/A      **pH:** N/A

**EVAPORATION RATE (ETHER = 1):** N/D

**FORM:** Liquid

**VOLATILE COMPONENTS:** N/D

**ODOR:** *RESIN:* slight      *HARDENER:* slight

**DECOMPOSITION TEMPERATURE:** *HARDENER:* >392°F (200°C)

**SECTION 10 – STABILITY AND REACTIVITY**

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Elevated temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents, strong acids or bases in bulk.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** *RESIN:* Carbon monoxide, carbon dioxide, aldehydes.

*HARDENER:* Carbon dioxide, aldehydes, nitrogen oxides.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**EYE:** No data available.

**SKIN:** No data available.

**INGESTION:** No data available.

**INHALATION:** No data available.

**SUBCHRONIC:** No data available.

**CHRONIC CARCINOGENICITY:**

**CARCINOGENICITY:** NTP: N/L

**IARC MONOGRAPH:** N/L

**OSHA REGULATED:** N/R

**TERATOLOGY:** No data available.

**REPRODUCTION:** No data available.

**MUTAGENICITY:** The individual components are only toxic prior to mixing or hardening. Do not use this chemical product for applications directly involving drinking water.

**SECTION 12 – ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** No data available.

**CHEMICAL FATE INFORMATION:** No data available.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**RCRA HAZARD CLASS:** N/D

**WASTE DISPOSAL METHOD:** Dispose in accordance with Federal, State and Local Regulations.

**RESIN RCRA STATUS:** Not a hazardous waste under RCRA (40 CFR 261).

**HARDENER RCRA STATUS:** U 069 Dibutyl Phthalate.

**SECTION 14 – TRANSPORT INFORMATION****TRANSPORTATION REQUIREMENTS (49CFR172-101)**

**D.O.T. CLASSIFICATION:** Not regulated

**TRANSPORT:** May need special permission of UPS, Postal Authority or Transport Agent.

**D.O.T. SHIPPING NAME:** Unrestricted

**SECTION 15 – REGULATORY INFORMATION**

**EXPOSURE LIMITS:** No data available.

**SECTION 16 – OTHER INFORMATION**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.