

MATERIAL SAFETY DATA SHEET
Prepared according to 29 CFR 1910.1200

DATE PREPARED: June, 1990
DATE REVISED: May, 2011

PAGE 1
MSDS NO: 154A

SECTION I - IDENTIFICATION

L & M CONSTRUCTION CHEMICALS, INC.
14851 CALHOUN ROAD
OMAHA, NE 68152

ASSISTANCE (CHEMTREC) 800-424-9300
EMERGENCY PHONE NO. 402-453-6600

ID NO.: N/Ap

PRODUCT
NAME: **EPOBOND** - "A" Resin

DOT CLASS: N/Ap
Not covered by D.O.T. regulations
DOT SHIPPING
NAME: Resin Solution

CHEMICAL
NAME: Epoxy resin

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS	OSHA PEL	ACGIH TLV	CAS	%
#1: Epoxy Resin	Not Listed	Not Listed	25068-38-6	90 - 100
#2: N-Butyl Glycidyl Ether	Not Listed	Not Listed	2425-08-6	1 - 10

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (F): 295
VAPOR PRESSURE (mm Hg): <1
VAPOR DENSITY (AIR = 1): N/Ap
SOLUBILITY IN WATER: Insoluble
APPEARANCE: Clear liquid
ODOR: Mild

SPECIFIC GRAVITY (H₂O = 1): 1.12
PERCENT VOLATILE BY VOLUME: N/Ap
MELTING POINT: N/Ap
BULK DENSITY: 9.33 #/gal
PH INFORMATION: Neutral
EVAPORATION RATE: N/Ap

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARDS FIRES: Moderate

FLASH POINT, °F, (method used): 200 PMCC

FLAMMABLE LIMITS - LEL: N/Ap UEL: N/Ap

EXTINGUISHING MEDIA: Water spray, dry chemical, CO₂, foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.

SECTION V - REACTIVITY DATA

STABILITY: unstable: stable: X

INCOMPATIBILITY (materials to avoid): Mineral acids, nitric acid, strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: SO₂, H₂S, CO, CO₂, formaldehyde

HAZARDOUS POLYMERIZATION: may occur: X will not occur:

SECTION VI - HEALTH HAZARD DATA**EPOBOND - "A" Resin**

POTENTIAL EFFECTS OF EXPOSURE (listed by primary routes of entry)

INHALATION: no foreseeable harmful effects.

SKIN: Prolonged contact can cause moderate irritation, defatting and dermatitis.

LD50 (rabbit): > 2,000 mg/kg (Bisphenol A)INGESTION: low toxicity for a single dose. **LD50 (rat): 2,000 mg/kg (Bisphenol A)**

EYE CONTACT: may cause slight irritation.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove person to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Keep person warm, quiet and seek medical attention.

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder before re-use.

INGESTION: Do not induce vomiting. Keep person warm, quiet and get medical attention. Aspiration of material into lungs due to vomiting may cause chemical pneumonitis which can be fatal.

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention as required.

CARCINOGENICITY OSHA: NO NTP: NO IARC: NO

HMIS RATING: HEALTH – 2, FLAMMABILITY – 1, REACTIVITY -- 0

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Broadcast absorbent material. Allow material to soak. Discard according to local pollution regulations.

WASTE DISPOSAL METHOD: Remove to appropriate chemical waste disposal area.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: May cause irritation. Avoid contact with eyes or prolonged contact with skin. Immediately flush eyes with water for at least 15 minutes.

OTHER PRECAUTIONS: Empty containers have hazardous residue. Store away from heat and flame.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (specify type): NIOSH approved organic vapor respirator recommended.

VENTILATION

LOCAL EXHAUST: Yes MECHANICAL (general): Yes

PROTECTIVE GLOVES: Impervious

EYE PROTECTION: Splash-proof goggles

END OF MSDS

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SECTION I - IDENTIFICATION

L & M CONSTRUCTION CHEMICALS, INC.
14851 CALHOUN ROAD
OMAHA, NE 68152

ASSISTANCE (CHEMTREC) 800-424-9300
EMERGENCY PHONE NO. 402-453-6600

ID NO.: UN 2735

PRODUCT

NAME: **EPOBOND** - "B" Catalyst

DOT CLASS: 8, Corrosive
PG: III

CHEMICAL

NAME: Epoxy Polyamide Bonding Agent

DOT SHIPPING NAME: Amines, Corrosive, N.O.S.
(polyoxypropylenediamine)

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS	OSHA PEL	ACGIH TLV	CAS	%
#1: Polyoxypropylenediamine	Not listed	Not Listed	9046-10-0	10 - 20
#2: Nonyl phenol	Not Listed	Not Listed	844852-15-3	30 - 40
#3: Tetraethylenepentamine	Not Listed	Not Listed	112-57-2	1 - 5

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT (F): 450

VAPOR PRESSURE (mm Hg): N/Ap

VAPOR DENSITY (AIR = 1): N/Ap

SOLUBILITY IN WATER: Slight

APPEARANCE: Varies with pigments

ODOR: Distinct Amine

SPECIFIC GRAVITY (H₂O = 1): 0.97

PERCENT VOLATILE BY VOLUME: N/Ap

MELTING POINT: N/Ap

BULK DENSITY: 8.08 #/gal.

PH INFORMATION: Neutral

EVAPORATION RATE: Slower

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARDS FIRES: Moderate

FLASH POINT, °F, (method used): >200 TCC

FLAMMABLE LIMITS - LEL: N/Ap UEL: N/Ap

EXTINGUISHING MEDIA: Water spray, dry chemical, CO₂, foam

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus

SECTION V - REACTIVITY DATA

STABILITY: unstable: stable: X

INCOMPATIBILITY (materials to avoid): Acids, strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and carbon dioxide, nitrogen oxides

HAZARDOUS POLYMERIZATION: may occur: will not occur: X

SECTION VI - HEALTH HAZARD DATA**EPOBOND - Catalyst****POTENTIAL EFFECTS OF EXPOSURE** (listed by primary routes of entry)

INHALATION: Excessive inhalation of vapors can cause irritation and/or burns to the upper respiratory tract. May lead to sensitization or respiratory system or asthma in predisposed individuals.

SKIN: corrosive; a single short exposure may cause skin sensitization/burns; caustic effect on skin and mucous membranes; **LD50 (rat): .61 g/kg (Polyoxypropylenediamine)**

INGESTION: may cause gastrointestinal irritation or ulceration. May cause burns of mouth, throat, and stomach. Swallowing will lead to a strong caustic effect on mouth and throat, and to the danger of perforation of the esophagus and/or stomach. **LD50 (rat): .22 g/kg (Polyoxypropylenediamine)**

EYE CONTACT: corrosive; may cause severe ocular irritation. Vapors may also cause eye irritation and pain.

EMERGENCY & FIRST AID PROCEDURES

INHALATION: Remove person to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Keep person warm, quiet and seek medical attention.

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Seek immediate medical attention.

INGESTION: Give 1-2 glasses of milk or water to conscious person. **DO NOT** induce vomiting. If vomiting occurs, give fluids again. Contact Poison Control and seek immediate medical attention.

EYE CONTACT: Flush with large amounts of water, lifting upper and lower lids occasionally. Seek immediate medical attention.

CARCINOGENICITY OSHA: NO NTP: NO IARC: NO

HMIS RATING: HEALTH – 3, FLAMMABILITY – 1, REACTIVITY -- 0

SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Absorb on absorbent material for proper disposal. Flush contaminated area with water.

WASTE DISPOSAL METHOD: Dispose in accordance with local pollution regulations and ordinances.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: CORROSIVE. Avoid contact with eyes or prolonged contact with skin. Immediately flush eyes with water for at least 15 minutes.

OTHER PRECAUTIONS: Empty containers have hazardous residues which must be observed. Store away from heat or flame.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (specify type): NIOSH approved organic vapor respirator recommended

VENTILATION LOCAL EXHAUST: Yes MECHANICAL (general): Yes

PROTECTIVE GLOVES: Impervious EYE PROTECTION: Splash-proof goggles

WORK/HYGIENIC PRACTICES: Launder contaminated clothing before re-use.

END OF MSDS