

**MATERIAL SAFETY DATA SHEET**  
Prepared according to 29 CFR 1910.1200

DATE PREPARED: June, 1990  
DATE REVISED: March, 2010

**PAGE 1**  
MSDS NO: 105

---

**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 1866

PRODUCT  
NAME: **FORM LIFE**

DOT CLASS: Hazardous Class 3, Flammable Liquid, PG III

CHEMICAL  
NAME: Polyurethane

DOT SHIPPING  
NAME: Resin  
Solution, Flammable

---

**SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

INGREDIENTS	OSHA PEL	ACGIH TLV	CAS	% wt
#1: *Xylene	100 ppm	100 ppm	1330-20-7	<25
#2: *Ethyl Benzene	100 ppm	100 ppm	100-41-4	<5
#3: Urethane Polymer	None Assigned	None Assigned	Proprietary	60-65
#4: Methyl N-Amyl Ketone	100 ppm	50 ppm	110-43-0	1-5
#5: Methyl Isobutyl Ketone	50 ppm	50 ppm	108-10-1	<5
#6: Propylene Glycol Monomethyl Ether	Not Estab.	Not Estab.	108-65-6	10-15

\* This product is a toxic chemical subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372.

Unlisted ingredients are not hazardous per OSHA standards 29 CFR 1910.1200 and are considered to be a trade secret of L&M construction Chemicals, Inc.

---

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

BOILING POINT (F): 270-290  
VAPOR PRESSURE (mm Hg): 9.5  
VAPOR DENSITY (AIR = 1): Heavier than air  
SOLUBILITY IN WATER: Negligible  
APPEARANCE: Clear amber  
Aromatic Solvent

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.00  
PERCENT VOLATILE BY VOLUME: 64  
MELTING POINT: N/Ap  
BULK DENSITY: 8.41 lb/gal  
PH INFORMATION: N/E  
EVAPORATION RATE: slower than n-Butyl Acetate

---

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

HAZARDS FIRES: High                      PRESSURE:                      REACTIVITY:  
FLASH POINT, °F, (TCC): 85  
FLAMMABLE LIMITS - LEL: 1.0                      UEL: 7.0  
EXTINGUISHING MEDIA: Water, carbon dioxide, or foam

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus to prevent inhalation of smoke or heated vapors.

---

**SECTION V - REACTIVITY DATA**

STABILITY: unstable:                      stable: X  
INCOMPATIBILITY (materials to avoid): Water, amines, strong bases or alcohols  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: At elevated temperatures, isocyanate vapors may be formed. Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed.  
HAZARDOUS POLYMERIZATION:                      may occur:                      will not occur: X  
CONDITIONS TO AVOID: Heat, sparks, flame or other sources of ignition

---

**SECTION VI - HEALTH HAZARD DATA****FORM LIFE**

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

INHALATION: Vapors may cause irritation of the respiratory tract. Vapors emitted from high temperature processes may cause sensitization. Excessive exposure to vapors or spray mists can result in headache, dizziness, incoordination, nausea and loss of consciousness.

SKIN: Prolonged or repeated skin contact may cause irritation and dermatitis.

INGESTION: Irritation of mucous membranes of the mouth, throat, esophagus and stomach.

EYE CONTACT: Contact with eyes may cause burning and tearing. Overexposure may cause asthmatic respiratory reactions.

**EMERGENCY & FIRST AID PROCEDURES**

INHALATION: Remove victim to fresh air. If difficulty noted in breathing, get medical attention at once.

SKIN: Wash affected areas with soap and water.

INGESTION: If this product is swallowed, do not induce vomiting. Seek immediate medical advice and/or attention.

EYE CONTACT: Flush with water for 15 minutes and get medical attention.

CARCINOGENICITY OSHA: No NTP: Yes IARC: No

Toluene Diisocyanate is listed as a suspect carcinogen by the National Toxicology Program.

HMIS RATING: HEALTH – 2, FLAMMABILITY – 3, REACTIVITY – 1, PERSONAL PROTECTION – X  
See Section VIII for Personal Protective Equipment (PPE).

---

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING & USE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Absorb spill with suitable absorbent material and place in a closed container. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways. Wear protective equipment during clean up.

WASTE DISPOSAL METHOD: This material has been tested and found to have a flash point below 140°F. If discarded, this material and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under federal RCRA regulations. (40 CFR 261). Disposal of this material or its containers requires compliance with applicable labeling, packaging, and record keeping standards. Dispose only in a facility permitted for disposal of hazardous waste.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Avoid inhalation of heated vapors or spray mists. Avoid prolonged or repeated skin contact.

OTHER PRECAUTIONS: Eye wash fountain and safety shower should be available.

---

**SECTION VIII - CONTROL MEASURES**

RESPIRATORY PROTECTION (specify type): Required if material is used in poorly ventilated areas or if material is sprayed or heated. If TLV is exceeded, use self contained NIOSH approved cartridge respirator or breathing apparatus.

VENTILATION: General ventilation is required.

LOCAL EXHAUST: If sprayed or heated

PROTECTIVE GLOVES: Chemical resistant

EYE PROTECTION: Chemical goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station and safety shower should be available.

WORK/HYGIENIC PRACTICES:

**END OF MSDS**