



# MATERIAL SAFETY DATA SHEET

## 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Trade Name** HARDENER LMN  
**MSDS Number** 161  
**CAS Number** --0  
**Supplier** ITW TRANS TECH  
475 N. GARY AVENUE  
CAROL STREAM, IL 60188 USA

**Telephone Numbers - 24 Hour Emergency Assistance**  
Emergency (352)323-3500

**Telephone Numbers - General Assistance**  
Information (630)752-4000

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Concentration	Exposure Limits / Health Hazards
ETHYL BENZENE	100-41-4	1 - 5 %	OSHA PELs: TWA: 100 ppm STEL: 125 ppm ACGIH TLV: TWA: 100 ppm 125 ppm STEL:
1-METHOXYPROPYLACEATE-2	108-65-6	10 - 20 %	Not established. Same as above.
TOLUENE DIISOCYANATE	26471-62-5	< 0.5 %	ACGIH TLV: .005 ppm STEL: .02ppm OSHA TWA: .005ppm STEL: .02ppm
XYLENE	1330-20-7	10 - 20 %	100 ppm OSHA, NIOSH, ACGIH TWA 150 ppm NIOSH, ACGIH STEL

### Composition Comments

\*\*\*The product contains less than 0.5% of TDI, which is being classified toxic according to EU regulations\*\*\*

## 3 HAZARDS IDENTIFICATION

### Potential Health Effects, Skin

May cause reddening of the skin.

### Potential Health Effects, Eye

Contact may result in irritation.

### Potential Health Effects, Inhalation

Inhalation may result in respiratory irritation. Dizzy feeling, Headache

### Signs & Symptoms of Short-Term (Acute) Exposure

Isocyanate vapors or mist at concentrations above TLV can irritate the mucous membranes of the respiratory tract. Persons with hyperactivity may have asthmatic attacks. High concentrations may lead to bronchitis, bronchial spasm and pulmonary edema.



**Eye Protection: Personal Protection Equipments (PPE)**

We recommend the use of chemical resistant and splash-proof safety goggles.

**Skin Protection: Personal Protection Equipments (PPE)**

Chemical resistant gloves (rubber).

**Respiratory Protection: Personal Protection Equipments (PPE)**

Use sufficient ventilation to keep vapor concentration of TDI's and solvents below TLV-value.

## 9 PHYSICAL & CHEMICAL PROPERTIES

**Odor and Appearance**

Viscous liquid Odor of organic solvents.

**Boiling Point** 137 °C /279F

**Specific Gravity** 1.1 (H<sub>2</sub>O=1)

**Melting Point** NI

**Percent Volatile** 379 g/l (ingredients with vapor pressure > 0.1 mbar)

**Vapor Pressure** 10 mbar

**Evaporation Rate** NI

**Vapor Density** 3 - 4 Heavier than air

**Solubility In Water** Insoluble

## 10 STABILITY & REACTIVITY

**Stability/Incompatibility**

Stable

Materials to Avoid: Material reacts with water, amines and alcohols.

**Hazardous Reactions/Decomposition Products**

Toluenediisocyanate (TDI) vapors and toxic decomposition products can be generated in a fire.

**Hazardous Polymerization**

Will not occur.

## 11 TOXICOLOGICAL INFORMATION

**Routes of Exposure**

Inhalation, ingestion, skin and eye contact.

## 12 ECOLOGICAL INFORMATION

**EcoToxicological Information**

Do not empty into drains.

## 13 DISPOSAL CONSIDERATIONS

**Waste Disposal**

Follow federal, state and local regulations to dispose of or incinerate waste material.

## 14 TRANSPORT INFORMATION

**Department of Transportation (DOT) Requirements:****General Transportation Information for Bulk Shipments**

Proper Shipping Name Paint Related Material

UN/NA Code 1263

## 15 REGULATORY INFORMATION

### NFPA Ratings

Health                      Flammability                      Reactivity                      Special Hazards

### HMIS Ratings

Health   2                      Flammability   3                      Reactivity   1                      Personal Prot. Equip.   B

### Following ingredients of this product are listed in SARA313

SARA Listed Ingredient Name	CAS Number	Maximum %
XYLENES	1330-20-7	

### Listed on the following Regulatory List(s)

SARA 313

## 16 OTHER INFORMATION

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**Completed By**