



# MATERIAL SAFETY DATA SHEET

## 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Trade Name** HARDENER LMN 1  
**MSDS Number** 414  
**Supplier** TRANS TECH AMERICA, INC.  
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
1-METHOXY PROPYL ACETATE-2	108-65-6	16 %	OSHA PELs: Not established. ACGIH TLV: Not established. OSHA/NIOSH IDLH TLV*: 275 mg/m3
HEXAMETHYLENEDIISOCYANATE	822-06-0	< 0.5 %	OSHA PEL: 5ppm ACGIH TLV: 5ppm
XYLENE	1330-20-7	16 %	OSHA TWA: 100ppm; OSHA STEL: 150ppm ACGIH TLV: TWA: 100 ppm STEL: 150 ppm NIOSH REL: (Xylene) 100 ppm CL 200 ppm/10M TWA:
POLYMERIC ISOCYANATE	28182-81-2	< 1 %	

## 3 HAZARDS IDENTIFICATION

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

Harmful by inhalation and in contact with skin.

### Effects of Long-Term (Chronic) Exposure

Repeated skin contact may cause dermatitis.

## 4 FIRST AID MEASURES

### Skin

Wash area thoroughly with soap and water and rinse.

### Eye

Rinse immediately with plenty of water. See a physician for medical treatment.

### Inhalation

Move to fresh air.

**Ingestion**

Get medical attention.

**Medical Conditions Aggravated by Exposure**

Skin allergies.

## 5 FIRE FIGHTING MEASURES

**Extinguishing Media**

Foam, carbondioxide, waterspray unsuitable media: waterjet

**Basic Fire Fighting Procedures**

Full protective equipment including self contained breathing apparatus should be used. Foam in large quantities. Cool endangered containers with water.

**Unusual Fire & Explosion Hazards**

Do not inhale fumes or decomposition products. Toxic gases may be generated by burning and by thermal decomposition.

**Flash Point** 100 F

**Autolgnition Temperature** C

**Flammability Limits in Air, Lower, % by Volume** 1

**Flammability Limits in Air, Upper, % by Volume** 10.8

## 6 ACCIDENTAL RELEASE MEASURES

**Spill or Leak Procedure**

Remove sources of ignition and ventilate polluted area. Take up remnants with liquid binding material like sand, etc. All spills should be cleaned up immediately.

## 7 HANDLING & STORAGE

**Handling**

NI

**Storage**

Use only with skin and eye protection. Keep away from ignition sources. Avoid contact with skin, eyes and mucuous membranes. Do not eat, drink or smoke during handling. Do not empty into drains.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**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).

## 9 PHYSICAL & CHEMICAL PROPERTIES

**Odor and Appearance**

Pasteous matter

**Boiling Point** 293 F

**Specific Gravity** 1.15

**Melting Point** NI

**Percent Volatile** 234 g/l

**Vapor Pressure** 11 mbar

**Evaporation Rate** NI

**Vapor Density** 3 - 4  
**Solubility In Water** Reactive with water, but insoluble.

## 10 STABILITY & REACTIVITY

### Stability/Incompatibility

Stable Strong oxidizers.

### Hazardous Reactions/Decomposition Products

Unknown

### Hazardous Polymerization

Will not occur.

## 11 TOXICOLOGICAL INFORMATION

### Routes of Exposure

Inhalation: fresh air supply. Skin contact: wash immediately with soap and water. Eye contact: rinse immediately with plenty of water. See a physician for medical treatment. Ingestion: call medical assistance.

## 12 ECOLOGICAL INFORMATION

## 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	UN/NA Code	1263
Hazard Class	3		
Packaging Group	Class III		
Labels Required	Flammable Liquid		

## 15 REGULATORY INFORMATION

### NFPA Ratings

Health	Flammability	Reactivity	Special Hazards
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### HMIS Ratings

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

### Disclaimer

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Completed On  
Completed By

7/19/2000  
TRANS TECH AMERICA, INC.

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2/26/1999