

Date Issued: April 30, 1999
 Supersedes Date: July 1, 1998

MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
Product Name		Shur/Mount Liquid Coverglass				
Product Code (Catalog Number)		LC and LC-16 (Catalog number change only-previously H-LC and H-LC-16)				
Product Category (Chemical Name)		Toluene				
Product Appearance and Odor		Water clear, viscous liquid, characteristic odor.				
Emergency Notification		Chem-Tel 1-800-255-3924				
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m3	ppm	mg/m3
Toluene	108-88-3	<80	100	375	150	560
Acrylic Resin Solids	Trade Secret	<30	NE	NE	NE	NE
Aromatic Ester	Trade Secret	<1	NE	5	NE	NE
Organic Silane	Trade Secret	<1	NE	NE	NE	NE
PHYSICAL DATA						
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.						
Boiling Range 230°F**		Specific Gravity 0.92*		Molecular Weight		Viscosity
Percent Volatile by Volume <80		Vapor Pressure @20 C degrees 22mm Hg**		Vapor Density (Air = 1) 3.2		Pour, Congealing or Melting Point NA
Solubility in Water @1 ATM and 25°C (77°F) Not soluble		Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate = 1) 0.45*				pH
NOTE: Value marked ** are for toluene and * are estimated.						
FIRE AND EXPLOSION HAZARD INFORMATION						
Flash Point (Minimum) <40°F**		Autoignition Temperature		Test Mode CC	LEL 1.3	UEL 7.1

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

Handling Precautions
Flammable or Explosive Limits (Approximate Percent by Volume in Air)
Extinguishing Media Carbon dioxide, dry chemical powder, foam.
Fire Fighting Procedures Firefighters must wear self-contained breathing apparatus and fully protective equipment. Water may be ineffective in fighting fire, but should be used to cool fire-exposed containers.
Decomposition Products Under Fire Condition
“Empty” Container Warning
Unusual Fire and Explosion Hazards Flammable liquid
HEALTH AND HAZARD INFORMATION
Variability Among Individuals
Signs and symptoms of overexposure Irritation of eyes, nose, and upper respiratory system, fatigue, weakness, confusion, euphoria, dizziness, headache, nausea and vomiting.
Effects of Overexposure
Nature of Hazard and Toxicity Information
Pre-existing Medical Conditions which may be Aggravated by Exposure Use of alcohol may increase narcotic effects and blood effects of toluene.
Threshold Limit Value
Health Hazards Irritant to upper respiratory tract, skin and eye. Produces narcotic effects by inhalation. Damage to liver, blood and kidneys. Effect on central nervous system (CNS).
PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES
Eye Contact Flush eyes with water for at least 15 minutes.
Skin Wash affected area with plenty of soap and water.

Inhalation

Remove to fresh air. Give oxygen or artificial respiration as needed. Seek medical treatment if discomfort persists.

Ingestion

Do NOT induce vomiting. Call a physician.

SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.

REACTIVITY**Stability**

stable

Incompatibility

oxidizing agents

Hazardous Decomposition Products

carbon monoxide, carbon dioxide

Conditions to Avoid

sources of ignition

Hazardous Polymerization

will not occur

Materials to Avoid

NE

ENVIRONMENTAL INFORMATION**Steps to be Taken in Case Material is Released or Spilled**

Wear self-contained breathing apparatus, rubber boots, and gloves. Turn off all sources of ignition. Absorb inert material and collect for disposal. Wash and ventilate spill site after pick up is complete.

Disposal

Burn in suitable equipped chemical incinerator. Must comply with federal, state and local regulations.

Protective Gear**Precautions to be taken in handling and storage**

Store material in cool place. Keep storage container tightly closed. Avoid prolonged or frequent exposure. Wash thoroughly after handling.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.

Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)

Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)

Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)

Toluene (CAS# 108-88-3) < 80% by weight.

Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)

SPECIAL STATE NOTIFICATIONS

This product contains Toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

PROTECTION AND PRECAUTIONS	
Ventilation Local exhaust	
Respiratory Protection OSHA/MHSA approved respirator.	
Protective Gloves Impervious	
Eye Protection Safety goggles.	
Other Protective Equipment Safety shower, eye bath, face shield and protective clothing.	
TRANSPORTATION AND OSHA RELATED LABEL INFORMATION	
Transportation Incident Information	
U.S. DOT Hazardous Materials Shipping Description	
OSHA Required Label Information	

TRIANGLE BIOMEDICAL SCIENCES (TBS) provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. TBS makes no representation or warranties, either expressed or implied of merchantability, fitness for particular purposes with respect to the information set forth herein or to which the information refers. Accordingly, TBS will not be responsible for damages resulting from the use of or reliance upon this information.