

Date Issued: November 20, 2008  
 Supersedes Date: October 6, 2005

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
<b>Product Name</b>	<b>SHUR/Mount™</b> Liquid Cover glass					
<b>Product Code (Catalog Number)</b>	LC and LC-16 (Catalog number change only-previously H-LC and H-LC-16)					
<b>Product Category (Chemical Name)</b>	Toluene					
<b>Product Appearance and Odor</b>	Water clear, viscous liquid, characteristic odor.					
<b>Emergency Notification</b>	Chem-Tel 1-800-255-3924 International 813-248-0585					
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m3	ppm	mg/m3
Toluene	000108883	<66	50	188	NL	NL
Acrylic Resin Solids	CASRNY2033	<32	NE	NE	NE	NE
2-(2'-Hydroxy-5'-methylphenyl) benzotriazole	002440224	<1	NE	NE	NE	NE
Butyl benzyl phthalate	000085687	<1	NE	NE	NE	NE
Gamma-methacryloxypropyl trimethoxysilane	002530850	<1	NE	NE	NE	NE
4-Methoxyphenol	000150765	<1	NA	5	NL	NL
PHYSICAL DATA						
<b>THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.</b>						
<b>Boiling Range</b> 230°F**	<b>Specific Gravity</b> 0.95*	<b>Molecular Weight</b> NA		<b>Viscosity</b>		
<b>Percent Volatile by Volume</b> <80	<b>Vapor Pressure @20 C degrees</b> 22mm Hg**	<b>Vapor Density (Air = 1)</b> 3.2		<b>Pour, Congealing or Melting Point</b> NA		
<b>Solubility in Water @1 ATM and 25°C (77°F)</b> Not soluble		<b>Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1)</b> 0.45*			<b>pH</b>	
<i>NOTE: Value marked ** are for toluene and * are estimated.</i>						

NA = not applicable      NL = not listed      NE = not established      NNR = not normally required

<b>FIRE AND EXPLOSION HAZARD INFORMATION</b>				
<b>Flash Point (Minimum)</b> <34°F**	<b>Autoignition Temperature</b> NE	<b>Test Mode</b> CC	<b>LEL</b> 1.3	<b>UEL</b> 7.1
<b>Handling Precautions</b>				
<b>Flammable or Explosive Limits (Approximate Percent by Volume in Air)</b>				
<b>Extinguishing Media</b> Carbon dioxide, dry chemical powder, foam.				
<b>Fire Fighting Procedures</b> 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.				
<b>Decomposition Products Under Fire Condition</b>				
<b>“Empty” Container Warning</b>				
<b>Unusual Fire and Explosion Hazards</b> Flammable liquid				
<b>HEALTH AND HAZARD INFORMATION</b>				
<b>Variability Among Individuals</b>				
<b>Signs and symptoms of overexposure</b> Irritation of eyes, nose, and upper respiratory system, fatigue, weakness, confusion, euphoria, dizziness, headache, nausea and vomiting.				
<b>Effects of Overexposure</b>				
<b>Nature of Hazard and Toxicity Information</b>				
<b>Pre-existing Medical Conditions which may be Aggravated by Exposure</b> Use of alcohol may increase narcotic effects and blood effects of toluene.				
<b>Threshold Limit Value</b>				
<b>Health Hazards</b> 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).				
<b>PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES</b>				
<b>Eye Contact</b> Flush eyes with water for at least 15 minutes.				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

<b>Skin</b> Wash with deluge of water for at least 15 minutes		
<b>Inhalation</b> Remove to fresh air. Give oxygen or artificial respiration as needed. Seek medical treatment if discomfort persists.		
<b>Ingestion</b> Wash out mouth with water is conscious. Do NOT induce vomiting. Call a physician.		
<b>SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.</b>		
<b>REACTIVITY</b>		
<b>Stability</b> stable	<b>Incompatibility</b> oxidizing agents	<b>Hazardous Decomposition Products</b> carbon monoxide, carbon dioxide
<b>Conditions to Avoid</b> sources of ignition	<b>Hazardous Polymerization</b> will not occur	<b>Materials to Avoid</b> NE
<b>ENVIRONMENTAL INFORMATION</b>		
<b>Steps to be Taken in Case Material is Released or Spilled</b> 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.		
<b>Disposal</b> Burn in suitable equipped chemical incinerator. Must comply with federal, state and local regulations.		
<b>Protective Gear</b>		
<b>Precautions to be taken in handling and storage</b> Store material in cool place. Keep storage container tightly closed. Avoid prolonged or frequent exposure. Wash thoroughly after handling.		
<b>THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.</b>		
<b>Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)</b> NL		
<b>Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)</b> NL		
<b>Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)</b> Toluene (CAS# 000108883) < 80% by weight.		
<b>Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)</b>		
<b>SPECIAL STATE NOTIFICATIONS</b> 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

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

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Date Issued: **November 20, 2008**

Supersedes Date: **October 6, 2005**

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
<b>Product Name</b>	<b>SHUR/Mount™ Liquid Cover glass (xylene)</b>					
<b>Product Code (Catalog Number)</b>	LC-A (Catalog number change only-previously H-LC-A)					
<b>Product Category (Chemical Name)</b>	Xylene-based					
<b>Product Appearance and Odor</b>	Water clear, viscous liquid, characteristic odor.					
<b>Emergency Notification</b>	Chem-Tel 1-800-255-3924 International 813-248-0585					
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m3	ppm	mg/m3
2-(2'-Hydroxy-5'-methylphenyl) benzotriazole	002440224	<1	NE	NE	NE	NE
4-methoxyphenol	000150765	<1	NA	5	NL	NL
Butyl benzyl phthalate	000085687	<1	NE	NE	NE	NE
Gamma-Methacryloxypropyl trimethoxysilane	002530850	<1	NE	NE	NE	NE
Xylene	001330207	34	100	435	NE	NE
Toluene	000108883	32	50	188	NL	NL
PHYSICAL DATA						
THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.						
<b>Boiling Range</b> NE	<b>Specific Gravity</b> 0.95	<b>Molecular Weight</b> NA		<b>Viscosity</b>		
<b>Percent Volatile by Volume</b> NE	<b>Vapor Pressure @20 C degrees</b> NE	<b>Vapor Density (Air = 1)</b> NE		<b>Pour, Congealing or Melting Point</b> NA		
<b>Solubility in Water @1 ATM and 25°C (77°F)</b> not soluble		<b>Evaporation Rate @1 ATM and 25°C (77°F) (n-Butyl Acetate =1)</b> NE			<b>pH</b> neutral	
FIRE AND EXPLOSION HAZARD INFORMATION						
<b>Flash Point (Minimum)</b> 40 F	<b>Autoignition Temperature</b> NE		<b>Test Mode</b>	<b>LEL</b>	<b>UEL</b>	

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<b>Handling Precautions</b>
<b>Flammable or Explosive Limits (Approximate Percent by Volume in Air)</b>
<b>Extinguishing Media</b> Carbon dioxide, dry chemical powder, foam
<b>Fire Fighting Procedures</b> 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
<b>Decomposition Products Under Fire Condition</b>
<b>“Empty” Container Warning</b>
<b>Unusual Fire and Explosion Hazards</b> Flammable liquid
<b>HEALTH AND HAZARD INFORMATION</b>
<b>Variability Among Individuals</b>
<b>Signs and symptoms of overexposure</b> Irritation of eyes, nose, and upper respiratory system, fatigue, weakness, confusion, euphoria, dizziness, headache, nausea and vomiting.
<b>Effects of Overexposure</b>
<b>Nature of Hazard and Toxicity Information</b>
<b>Pre-existing Medical Conditions which may be Aggravated by Exposure</b> Use of alcohol may increase narcotic effect and blood effects of xylenes.
<b>Threshold Limit Value</b>
<b>Health Hazards</b> Irritant to upper respiratory tract, skin and eyes. Produces narcotic effects by inhalation. Damage to liver, blood and kidneys. Effect on central nervous system (CNS).
<b>PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES</b>
<b>Eye Contact</b> Flush eyes with water for at least 15 minutes.
<b>Skin</b> Wash affected area with plenty of soap and water for at least 15 minutes
<b>Inhalation</b> Remove to fresh air. Give oxygen or artificial respiration as needed.

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<b>Ingestion</b> Wash out mouth with water if person is conscious. Contact medical personnel <b>SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.</b>		
<b>REACTIVITY</b>		
<b>Stability</b> stable	<b>Incompatibility</b>	<b>Hazardous Decomposition Products</b>
<b>Conditions to Avoid</b> sources of ignition	<b>Hazardous Polymerization</b> will not occur	<b>Materials to Avoid</b> NE
<b>ENVIRONMENTAL INFORMATION</b>		
<b>Steps to be Taken in Case Material is Released or Spilled</b> Wear self-contained breathing apparatus, rubber boots, and gloves. Turn off all sources of ignition. Absorb on inert material and collect for disposal. Wash and ventilate spill site after pick up is complete.		
<b>Disposal</b> Burn in suitably equipped chemical incinerator. Must comply with federal, state and local regulations.		
<b>Protective Gear</b>		
<b>Precautions to be taken in handling and storage</b> Store material at 25°C.		
<b>THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.</b>		
<b>Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)</b> NL		
<b>Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)</b> NL		
<b>Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)</b> Xylene, CAS# 001330207 (34% by weight); Toluene CAS#000108883 (32% by weight)		
<b>Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)</b>		
<b>SPECIAL STATE NOTIFICATIONS</b>		
Tolulene (CAS# 000108883 is known by the state if California to cause reproductive toxicity		
<b>PROTECTION AND PRECAUTIONS</b>		
<b>Ventilation</b> Local exhaust		
<b>Respiratory Protection</b> OSHA/MHSA approved respirator.		

NA = not applicable

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<b>Protective Gloves</b> Impervious
<b>Eye Protection</b> Safety goggles.
<b>Other Protective Equipment</b> Safety shower, eye bath, face shield and protective clothing.
<b>TRANSPORTATION AND OSHA RELATED LABEL INFORMATION</b>
<b>Transportation Incident Information</b>
<b>U.S. DOT Hazardous Materials Shipping Description</b>
<b>OSHA Required Label Information</b>

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## MATERIAL SAFETY DATA SHEET

IDENTIFICATION AND EMERGENCY INFORMATION						
<b>Product Name</b>	<b>SHUR/Mount™</b> Liquid Cover glass (Water based)					
<b>Product Code (Catalog Number)</b>	LC-W (Catalog number change only-previously H-LC-W)					
<b>Product Category (Chemical Name)</b>	Water-based					
<b>Product Appearance and Odor</b>	Clear, colorless slightly viscous liquid					
<b>Emergency Notification</b>	Chem-Tel 1-800-255-3924 International 813-248-0585					
COMPONENTS AND HAZARD INFORMATION						
Component	CAS No.	%	OSHA TWA		OSHA STEL	
			ppm	mg/m3	ppm	mg/m3
Glycerol	000056815	<34	NA	15.5	NL	NL
Magnesium Nitrate	010377603	<1	NE	NE	NE	NE
Methanol	000067561	<1	NL	260	NL	NL
Poly(vinyl alcohol) partially hydrolyzed	025213245	<13	NE	NE	NE	NE
Sodium Chloride	007647145	<1	NE	NE	NE	NE
Sodium phosphate, monobasic, monohydrate	010049215	<1	NE	NE	NE	NE
Sodium Phosphate, dibasic, anhydrous	007558794	<1	NE	NE	NE	NE
Water	007732185	<53	NE	NE	NE	NE
PHYSICAL DATA						
<b>THE FOLLOWING DATA ARE APPROXIMATE OR TYPICAL VALUES AND SHOULD NOT BE USED FOR PRECISE DESIGN PURPOSES.</b>						
<b>Boiling Range</b> NA	<b>Specific Gravity</b> 1.127	<b>Molecular Weight</b> NA		<b>Viscosity</b>		
<b>Percent Volatile by Volume</b> NA	<b>Vapor Pressure @20 C degrees</b> NA	<b>Vapor Density (Air = 1)</b> NA		<b>Pour, Congealing or Melting Point</b> NE		
<b>Solubility in Water @1 ATM and 25°C (77°F)</b> miscible		<b>Evaporation Rate @1 ATM and 25°C (77°F)</b> (n-Butyl Acetate =1) NE			<b>pH</b> NE	

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<b>FIRE AND EXPLOSION HAZARD INFORMATION</b>				
<b>Flash Point (Minimum)</b> NE	<b>Autoignition Temperature</b> NE	<b>Test Mode</b> NE	<b>LEL</b> NE	<b>UEL</b> NE
<b>Handling Precautions</b>				
<b>Flammable or Explosive Limits (Approximate Percent by Volume in Air)</b>				
<b>Extinguishing Media</b>				
<b>Fire Fighting Procedures</b>				
<b>Decomposition Products Under Fire Condition</b>				
<b>“Empty” Container Warning</b>				
<b>Unusual Fire and Explosion Hazards</b>				
<b>HEALTH AND HAZARD INFORMATION</b>				
<b>Variability Among Individuals</b>				
<b>Signs and symptoms of overexposure</b>				
<b>Effects of Overexposure</b>				
<b>Nature of Hazard and Toxicity Information</b>				
<b>Pre-existing Medical Conditions which may be Aggravated by Exposure</b>				
<b>Threshold Limit Value</b>				
<b>Health Hazards</b> Irritant to upper respiratory tract, skin and eye.				
<b>PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES</b>				
<b>Eye Contact</b> Flush eyes with water for at least 15 minutes.				
<b>Skin</b> Wash with deluge of water for at least 15 minutes				

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

<b>Inhalation</b> Remove to fresh air. Seek medical treatment if discomfort persists.		
<b>Ingestion</b> Wash out mouth with water is conscious. Do NOT induce vomiting. Give 8 oz. Of water or milk to drink. Call a physician or Poison Control Center immediately.		
<b>SEEK MEDICAL TREATMENT IF DISCOMFORT PERSISTS.</b>		
<b>REACTIVITY</b>		
<b>Stability</b> stable	<b>Incompatibility</b> oxidizing agents	<b>Hazardous Decomposition Products</b> carbon monoxide, carbon dioxide
<b>Conditions to Avoid</b> High temperatur	<b>Hazardous Polymerization</b> will not occur	<b>Materials to Avoid</b> NE
<b>ENVIRONMENTAL INFORMATION</b>		
<b>Steps to be Taken in Case Material is Released or Spilled</b> Wear self-contained breathing apparatus, rubber boots, and gloves. Turn off all sources of ignition. Absorb inert material and collect for disposal.		
<b>Disposal</b> Burn in suitable equipped chemical incinerator. Must comply with federal, state and local regulations.		
<b>Protective Gear</b>		
<b>Precautions to be taken in handling and storage</b> Store material at 4° C.		
<b>THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES.</b>		
<b>Reportable Quantity (RQ), EPA Regulation 40 CFR 302 (CERCLA Section 102)</b> NL		
<b>Threshold Planning Quantity (TPQ), EPA Regulation 40 CFR 355 (SARA Sections 301-304)</b> NL		
<b>Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)</b> Methanol (CAS# 000067561) <1% by weight		
<b>Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Sections 311-312)</b>		
<b>SPECIAL STATE NOTIFICATIONS</b>		
<b>PROTECTION AND PRECAUTIONS</b>		
<b>Ventilation</b> Local exhaust		

NA = not applicable

NL = not listed

NE = not established

NNR = not normally required

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

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