

MATERIAL SAFETY DATA SHEET

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: **Moldpac Acrylic Liquid**
GENERIC NAME: Self-Cure Cross Linked Acrylic Monomer
DOT NAME: Methyl Methacrylate Monomer, Inhibited
Flammable Liquid, UN 1247
HMIS: H=2 F=3 R=2

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>COMPONENTS</u>	<u>CAS NUMBER</u>	<u>%</u>
Methylmethacrylate	80-62-6	>85
Polymerization Inhibitors: Hydroquinone		
Tertiary Amines		
Colorstable Agent, Ultraviolet light absorber (Aromatic ketone)		
Cross Linking agent (Polyfunctional acrylic monomer)		

SECTION III PHYSICAL DATA

VAPOR DENSITY: AIR=1	3.45
BOILING POINT:	@ 760 mm 214°F
VAPOR PRESSURE (mm Hg): @ 20°C/68°F	29
SOLUBILITY IN WATER: g/100g @ 68°F	1.6
EVAPORATION RATE: Butyl Acetate=1	3
SPECIFIC GRAVITY: H ₂ O=1	0.94
PERCENT VOLATILE BY VOLUME (%)	100%
APPEARANCE AND ODOR:	Water clear, colorless liquid

SECTION IV FIRE, EXPLOSION AND REACTIVITY INFORMATION

FLASH POINT (AND TEST METHOD): Closed Cup Tag. 50°F
FLAMMABLE LIMITS @77°F .1ATM % by vol LEL: 2.12 UEL: 12.5
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog (by trained personnel)
SPECIAL FIREFIGHTING PROCEDURES: Cool containers that are exposed to heat with cold water spray. Closed containers may overheat and rupture violently. Full protective equipment, including self-contained breathing apparatus, is recommended.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat can induce polymerization with rapid release of energy. Vapors may travel along floor to ignition source and flash back.
IMCOMPATIBILITY(MATERIALS TO AVOID): Has strong solvent action, will soften paint, swell rubber.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Acrid fumes, CO and/or CO₂
STABILITY: Stable: Elevated temperatures, Ignition sources.

HAZARDOUS POLYMERIZATION: May occur. Elevated temperatures. Storage with absence of inhibitor, addition of polymerization catalyts.

SECTION V HEALTH HAZARD INFORMATION

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move subject to fresh air. Give oxygen or artificial respiration as required.

INGESTION: Induce vomiting and consult physician immediately.

EYE CONTACT: Flush eye with water for 15 minutes, consult physician.

SKIN CONTACT: Wash skin with soap and water

HEALTH HAZARDS

THRESHOLD LIMIT VALUE: 100 ppm Acute oral LD₅₀Rats = 7900Mg/Kg

EFFECTS OF OVEREXPOSURE: High vapor concentration can induce headache, nausea, smarting of eyes and irritation of respiratory system. Liquid contact with eyes will cause irritation and possible corneal damage.

SECTION VI ENVIRONMENTAL PROTECTION INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate ignition sources. Avoid breathing vapors. Dike and absorb liquid on inert material (sand, soda ash, vermicullite, etc.) and transfer to containers for disposal. Remove saturated clothing, wash affected skin areas with soap and water. Do not flush into sewer systems.

WASTE DISPOSAL METHOD: Incinerate under controlled conditions in safe open area, or landfill according to federal, state and local regulations. Biological degradation is also possible.

SECTION VII CONTROL MEASURES

RESPIRATORY PROTECTION: Not required if local ventilation keeps vapor concentration below TLV and LEL

VENTILATION: Yes. Local exhaust and mechanical as needed.

PROTECTIVE GLOVES: Impervious, Neoprene

EYE PROTECTION: Yes

OTHER PROTECTIVE EQUIPMENT: Rubber apron, safety showers. Use explosion proof motors.

SECTION VIII SPECIAL PRECAUTIONS

HANDLING PRECAUTIONS: Use grounding cables on all containers when dispensing.

STORAGE PRECAUTIONS: Store at ambient temperatures. Indoor storage should be limited to approved locations.

OTHER PRECAUTIONS: Some individuals are allergic to liquid monomer and any indication of rash or redness due to exposure should be a signal to avoid any contact and take special precautions.