

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Lumiclear™ (resin)
Manufacturer/Supplier	Lumicor®, Inc.
Chemical Name	Polymethyl methacrylate
Synonym(s)	Acrylic (PMMA)
OSHA Status	Nonhazardous

2. COMPOSITION INFORMATION ON INGREDIENTS

Component	Weight %	CAS Registry No.
Polymethyl methacrylate (PMMA)	99.5% (MIN)	9010-88-2
Methyl methacrylate (MMA)	0.5% (MAX)	80-62-6

One or more of the following co-components may be present in trace amounts: Polyester, Rayon, Nylon, Aluminum, Raime, Cotton, Silk, Natural straw or foliage, Paper, Glass, Natural Shells, Wood, Bamboo.

3. HAZARDS IDENTIFICATION

Skin Contact:	Molten material will produce thermal burns.
Eye Contact:	Vapors from heated product can irritate the eyes.
Inhalation:	Inhalation of vapors from heated product can cause nausea, headache, dizziness, as well as irritation of the lungs, nose and throat.
Ingestion:	Low hazard associated with normal conditions.
Chronic (Cancer):	N/A
Teratology (Birth Defects):	No information, but adverse effects unlikely.
Reproductive Information:	No information, but adverse effects unlikely.
HMIS® Hazard Ratings:	Health - 1, Flammability -1, Chemical Reactivity - 0

In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation:	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Eyes:	If molten material or dust contacts the eye, immediately flush with water for at least 15 minutes. Call a physician.
Skin:	If burned by contact with molten material, cool as quickly as possible with cold water. Do not peel material from skin. Get medical attention for thermal burn.
Ingestion:	Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary.

5. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Solid resin
Appearance:	Clear to opaque
Odor:	N/A
Specific Gravity:	1.19
Softening Point:	100°C / 210°F
Solubility in Water:	Negligible
Flash Point:	N/A
Auto-ignition Temperature:	445°C / 833°F (ASTM E659)

6. STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Acids, bases, and strong oxidizing agents.
Conditions to Avoid:	Temperatures over 300°C/570°F.
Thermal Decomposition:	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

7. FIRE FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide, dry chemical, or water.
Fire Protection Equipment:	Wear self-contained, positive pressure breather apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
Unusual Fire and Explosion Hazards:	Product is combustible thermoplastic material that burns vigorously with intense heat.

8. WASTE DISPOSAL/ACCIDENTAL RELEASE MEASURES

Disposal:	Landfill, recycle, or incinerate at a facility that complies with local, state and federal regulations.
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9. HANDLING AND STORAGE

Maximum Storage Temperature:	99°C / 210°F (softening temperature).
Storage Measures:	If material is stored under ambient temperature conditions, it is not hazardous. However, extensive storing at higher than the maximum temperature will emit vapors, carbon monoxide or carbon dioxide.
Handling Measures:	Processing of the material under high temperatures will cause hazardous emissions of vapors, carbon monoxide, or carbon dioxide. Blower collecting and local exhaust ventilation systems should be installed to prevent contaminant dispersion into the air. Sawing of this product generates particulates regulated as "inert" or "nuisance" dusts. To minimize dust emissions, engineering controls should be employed, such as baghouse filters and cyclone separators.

10. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection:	None required under normal circumstances.
Eye Protection:	Wear a face shield or safety glasses with side shields when working with molten material, or when sawing, cutting, or routing the material.
Skin Protection:	Wear cotton or canvas gloves to protect against thermal burns, cuts, or abrasions to the hands.
Ventilation:	Local exhaust ventilation system should be constructed and installed in accordance with ANSI Z9.2 or ACGIH guidelines to control potential emissions near the source.

12. REGULATORY INFORMATION**ENVIRONMENT**

Comprehensive Environmental Response, Compensation, and Liability Act: Under section of 102 (a) of the act, this product is NOT designated as hazardous. No reportable quantities and no notification requirements to the National Response Center in Washington DC are set forth for it's release from a vessel, an offshore or onshore facility (40 CFR Part 302)

Research Conservation and Recovery Act (RCRA): This material is identified as solid but NOT hazardous waste by RCRA legislation (40 CFR Part 261)

Toxic Substances Control Act (TSCA): The components of this product are on the TSCA inventory list. Any impurities present in this product are exempt from listing.

Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III: This product may be considered an immediate (acute) health hazard due to potential MMA emissions. However, reporting of thresholds for the material is not required because the concentration of its MMA component is below the de minimis concentration (40 CFR Part 370).

TRANSPORTATION

DOT Hazard Class: Not regulated
DOT Shipping Name: N/A

LABOR AWARENESS

This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, under processing conditions, it may become a health hazard to employees because vapors and/or particulates could be released. See Section 9 for Storage and Handling information.

13. OTHER INFORMATION

Lumicor®, Inc. believes that the information and recommendations contained herein (including data and statements) are factual and reliable as of the date hereof. Users should perform their own tests to determine the suitability of these products for their own particular purposes. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION CONTAINED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any other process. Further, the conditions and methods of use are beyond the control of Lumicor®, Inc. Lumicor®, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.