

SAFETY DATA SHEET ›

**LUMICLEAR™****1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

Trade Name	Lumiclear™ (resin)
Other Name(s)	Polymethyl Methacrylate (PMMA)
Usage	Plastic sheet products
Supplier	Lumicor, Inc. 1400 Monster Road SW, Renton, WA 98057 Telephone: 425.255.4000 www.lumicor.com

**2. HAZARDS IDENTIFICATION**

This material is classified as not hazardous under OSHA regulations. Under normal conditions of use, this product is not expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Characterization	100% Polymethyl methacrylate (PMMA) [CAS# 9010-88-2]
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**4. FIRST-AID MEASURES**

Inhalation	Move subject to fresh air.
Skin Contact	If molten material contacts skin, cool rapidly with cold water and obtain medical attention for thermal burn.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	This material is not expected to be absorbed within the gastrointestinal tract, so induction of vomiting should not be necessary.

**5. FIRE FIGHTING MEASURES**

Suitable Extinguishing Media	Carbon dioxide, dry chemical, or water.
Specific Fire Hazards	This product is a combustible thermoplastic material that burns vigorously with intense heat.
Special Protective Equipment & Precaution for Fire Fighters	Wear a self-contained breathing apparatus and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precaution	Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.
Environmental Precaution	Do not allow to enter into soil, waterbodies or drains.
Methods for Cleaning Up	Avoid generation of dust. Remove all sources of ignition. Sweep or scoop up into closed containers for disposal.

**7. HANDLING AND STORAGE**

Max. Storage Temperature	120°F (49°C)
Handling	Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. Avoid dust formation, and accumulation of static charges. Prohibit sources of spark and ignition, such as smoking. Processing of this product under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide.
Storage	If this 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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Not applicable
Ventilation Measures	Provide good ventilation and/or an exhaust system in the work area.
Respiratory Protection	None required under normal conditions.
Hand Protection	Canvas or cotton gloves.
Eye Protection	Safety glasses with side shields (ANSI Z87.1 equivalent).
Skin & Body Protection	Wear suitable protective clothing and boots.
Other Protective Measures	Avoid contact of molten material with skin. Do not inhale dust particles or vapors. Keep away from sources of ignition. Wash hands before breaks and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid sheets
Color	Clear to opaque
Odor	Not applicable
pH	Not applicable
Melting Point	300°F (150°C)
Boiling Point	Not available
Decomposition Temperature	Not available
Flash Point	689°F (365°C)
Auto-ignition Temperature	833°F (445°C)
Explosion Limits	Not applicable
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	1.19
Solubility	Insoluble

## 10. STABILITY AND REACTIVITY

Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.
Materials to Avoid	None under normal conditions of use.
Hazardous Decomposition Products	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

This product should not be harmful under normal conditions of use.

Inhalation	Unlikely to be harmful by inhalation under ambient temperature. Inhalation of vapors from heated product can cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat.
Skin Contact	Possible skin irritation. Contact with molten material can result in burns.
Ingestion	Unlikely to be harmful by ingestion under ambient temperature.
Eye Contact	Vapors from heated product can irritate the eyes.
Carcinogenicity	Non-carcinogenic

## 12. ECOLOGICAL INFORMATION

This product is a solid, inert product with low volatility, and is essentially insoluble in water.

Ecotoxicity	This product should have low toxicity to aquatic and terrestrial organisms.
Mobility	Due to the solid nature of this product, it should have low mobility in soil.
Persistence & Degradability	This product is non-biodegradable.
Bioaccumulation	This solid product has a low potential for bioaccumulation.
Effect in Sewage Plants	May be separated mechanically.

## 13. DISPOSAL CONSIDERATIONS

Waste disposal should be in accordance with all federal, state and local environmental laws and regulations.

## 14. TRANSPORT INFORMATION

Not subject to national and international regulations on the transport of dangerous goods.

## 15. REGULATORY INFORMATION

OSHA Hazard Communication	Non-hazardous
Toxic Substances Control Act	Listed
CERCLA Hazardous Substances (40 CFR 302)	None
SARA Section 311/312	Non-hazardous
SARA Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A)	None
SARA Section 313 Toxic Chemicals (40 CFR 372.65)	None
RCRA Hazardous Wastes (40 CFR 261)	When this product becomes a waste, it is identified as a solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261).
Canadian WHMIS	None

## 16. OTHER INFORMATION

HMIS Rating                      Health = 1                      Flammability = 1                      Physical Hazard = 0

The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.