

LUMICOR, INC. 1400 MONSTER ROAD SOUTHWEST RENTON, WA. 98055 425 255-4000

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Material: Lumicor translucent panels

Date Issued: 12/23/02 Chemical name: Acrylic sheet

HAZARDOUS MATERIAL IDENTIFICATION GUIDE

Health 0 Flammability 1 Reactivity 0 Protection E

PRODUCT COMPONENTS Approximate WT %

Polymethyl methacrylate
 Methyl methacrylate
 1

One or more of the following co-components

3. Polyester Trace 4. Rayon Trace 5. Aluminum Trace 6. Raime Trace 7. Cotton Trace 8. Trace Linen 9. Natural straw and foliage Trace 10. Paper Trace

PHYSICAL PROPERTIES

Appearance: Clear to opaque

Odor: N/A N/A Viscosity: Boiling point: N/A Vapor pressure: N/A Vapor density: N/A Specific gravity: 1.19 pH: N/A Solubility in water: N/A Volatility: 0% Evaporation rate: N/A

FIRE AND EXPLOSION HAZARD

Flash point: N/A

Self-ignition temp: 860F / 460C

Upper explosion limit: N/A
Lower explosion limit: N/A

Extinguishing media: Water fog, foam, carbon dioxide, dry chemical,

halogenated agents.

Fire protection equipment: Wear self-contained air purifying respirator

(pressure-demand, MSHA/NOISHA approved

or equivalent) and full protective gear.

WORKPLACE EXPOSURE LIMITS / PERSONAL PROTECTION

Personal Protective Equipment

Eye / Face: Safety glasses with side shields. Protective Clothing: Impervious gloves and apron.

Respiratory Protection: OSHA, NOISHA approved respirators.

Other Protective Equipment: Eye wash station in work area.

Exposure Limits

			(mg/m3)
	(ppm)	(ppm)	Sheet Inert or
	<u>PMMA</u>	MMA	Nuisance Dust
-PEL (OSHA)	None	100	5
-TLV (ACGIH)	None	100	None
-TWA	None	50	2
-STEL	None	75	6

Lumicor Sheet

-Particulates 15mg/m3, 8 hr. TWA. -Total Dust 5mg/m3, 8 hr. TWA.

HEALTH HAZARDS FROM OVEREXPOSURE

Lumicor sheet covered with polyethylene masking may be fabricated by operations such as sawing, routing, drilling, sanding, polishing, and thermoforming. Skin contact and inhalation of dust during fabrication operations are expected to be the primary causes of occupational exposure to the material. Due to chemical and physical properties, Lumicor does not require special handling other than good industrial hygiene and safety procedures practiced with any industrial material.

Eye: Dust or fumes from fabrication operations may cause injury.

Skin: Unlikely to cause skin irritation.

Ingestion: Low oral toxicity.

Inhalation: Unlikely to be hazardous, but dust or vapors may cause irritation. Chronic (Cancer): No evidence of adverse effects, but adverse effects unlikely.

Teratology (Birth Defects): No information, but adverse effects unlikely. Reproductive Information: No information, but adverse effects unlikely.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove subject from exposure. Obtain medical attention if ill

effects occur.

Skin Contact: Wash skin with soap and water.

Eye Contact: Remove particles by irrigating with eye wash solution or clean

water, holding the eyelids apart. Obtain medical attention.

Ingestion: Ingestion of small quantities of the material under normal

circumstances would not cause harmful effects.

Further Medical Treatment: Symptomatic treatment and supportive therapy as

indicated.

REACTIVITY INFORMATION

Stability: Stable under normal and anticipated storage and handling

conditions.

Conditions to Avoid: Temperatures over 570 F.

Hazardous Decomposition

Products: Thermal decomposition or combustion may emit methyl

methacrylate vapors, carbon monoxide, or carbon dioxide.

Incompatible Compounds: Acids, alkalies, strong oxidizing agents, acetone.

WASTE DISPOSAL

Treatment, storage, transportation, and disposal must be performed in accordance with applicable local, state and federal regulations. Material can be incinerated at facilities in compliance with local, state and federal regulations. Do not incinerate in closed containers. Discarded product is not a RCRA hazardous waste.

ACCIDENT PREVENTION MEASURES

Respiratory Protection: None required under normal conditions.

Hand Protection: Canvas or cotton gloves.

Eye Protection: Safety glasses with side shields.

Ventilation: Blower collecting and local exhaust ventilation

systems should be constructed and installed in accordance with the American National Standards Fundamentals Governing the Design and Operation of Local Exhaust Systems in order to control possible

hazardous vapor and/or dust release.

STORAGE AND HANDLING INFORMATION

Maximum Storage Temperature: 160C / 320 F

Storage Measures: material is not hazardous when stored under ambient

temperature conditions. Storage at temperatures

exceeding maximum allowance will emit MMA vapors,

carbon monoxide, or carbon dioxide.

Handling Measures: Processing the material under high temperatures will

cause hazardous emissions of MMA vapors, carbon monoxide, or carbon dioxide. Employee exposure to

these air contaminates may occur during on-line sheet cutting, sawing, drilling, routering, sanding, polishing and thermoforming operations. Blower collecting and local exhaust ventilation systems should be installed to prevent dispersion of contaminates into the air. Sawing of Lumicor generates dust regulated as inert or nuisance dust. Engineering controls such as baghouse filters and cyclone separators should be installed to minimize dust emissions.

TOXICITY INFORMATION

No toxicity information is available. Health hazard assessment is based on information that is available on the properties of its components.

Ingestion: The acute oral LD50 in rate is likely to fall above 5000

mg/kg. This material is classified as practically non-

toxic by ingestion.

Eye Contact: Other than mechanical abrasion, no irritation is likely

to develop following contact with human skin.

Skin Contact: No irritation is likely to develop following contact with

the skin.

Skin Absorption: This product will probably not be absorbed through

the skin.

Inhalation: No toxic effects are known to be associated with

inhalation of dust from this material. If product is heated, residual monomer vapor may cause irritation to nose, throat, and lungs, and cause dizziness,

headache, and nausea.

Other Overexposure Effects: No other adverse clinical effects have been

associated with exposures to this material.

REGULARITORY INFORMATION

Environment

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): 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)

PMMA is not listed on the U.S. TSCA Chemical Substances Inventory, whereas MMA is listed. Manufacturers, importers, and processors of this mixture are not subject to reporting health and safety studies under the act (40 CFR Part 716).

Superfund Amendment and Reauthorization Act of 1986 (SARA)

This substance belongs to the chronic effects hazard category as defined by the OSHA Hazard Communication Standard due to possible MMA emissions. Reporting thresholds of the material to the commission, committee, and the fire department with jurisdiction over the facility is not required as the concentration of it's MMA constituent is below the de minimis concentration (40 CFR Part 730)

<u>Transportation</u>

DOT Hazard Class: N/A

<u>Labor</u>

The OSHA Hazard Communication Standard designates this material as a hazardous mixture due to the possible release of MMA vapors during processing operations, and would present health hazard to employees (40 CFR 1900.1200). However, this product is not included in the list of Toxic and Hazardous Substances under the Occupational Safety and Health Act (29 CFR Part 1910, Subpart 2).

TRANSPORTATION

DOT: Not regulated.

OTHER INFORMATION

Creation Date: 12/23/02

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