



# Material Safety Data Sheet

MSDS0061

revised 18-MAY-2002

## "PERSPEX" CLEAR CAST ACRYLIC SHEET

### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

"PERSPEX" IS A REGISTERED TRADEMARK OF LUCITE INTERNATIONAL INC.

#### Material Identification

MSDS Number : 0061  
CAS Number : 9011-14-7  
CAS Name : POLY (METHYL METHACRYLATE)  
Product Use : GENERAL PLASTICS FABRICATION AND GLAZING.

#### Company Identification

##### MANUFACTURER/DISTRIBUTOR

Lucite International, Inc.  
7275 Goodlett Farms Parkway  
Cordova, TN 38018

##### PHONE NUMBERS

Product Information : 1-800-4-LUCITE  
Transportation Emergency : 1-800-424-9300  
Medical Emergency : 1-877-886-2143

### COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS Number	%
POLY (METHYL METHACRYLATE)	9011-14-7	100

### HAZARDS IDENTIFICATION

\*\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*\*  
\* Flat sheets covered with polyethylene masking. Operations \*  
\* such as sawing, routing and drilling may generate dust and \*  
\* irritating fumes. \*  
\*\*\*\*\*

Potential Health Effects:

EYE: Dust or fumes from fabrication operations may cause irritation.

SKIN: Unlikely to cause skin irritation.

INGESTION: Low oral toxicity.

INHALATION: Unlikely to be hazardous but dust or vapors may cause irritation.

CHRONIC (CANCER) INFORMATION: No evidence of adverse effects but adverse effects unlikely.

TERATOLOGY (BIRTH DEFECT) INFORMATION: No information but adverse effects unlikely.

REPRODUCTIVE INFORMATION: No information but adverse effects unlikely.

---

## **FIRST AID MEASURES**

---

### First Aid

Inhalation: Remove patient 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 this material under normal circumstances would not cause harmful effects.

Further Medical Treatment: Symptomatic treatment and supportive therapy as indicated.

---

## **FIRE FIGHTING MEASURES**

---

### FIRE AND EXPLOSION HAZARD DATA

Flash point: 580 deg. F (304 deg. C) PMCC

Autoignition temperature: No data

Flammable limits (STP): Not applicable

Extinguishing media:

Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment: Self-contained breathing apparatus with full face piece and protective clothing.

---

## **ACCIDENTAL RELEASE MEASURES**

---

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

---

## **HANDLING AND STORAGE**

---

Open and store in well ventilated areas to avoid inhalation of accumulated acrylic type monomers.

---

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

## Personal Protective Equipment

Eye/Face: Safety Glasses with side shields.  
Protective Clothing: Impervious gloves and apron.  
Other protective equipment:  
Eyewash station in work area.

## Exposure Guidelines

## Exposure Limits

## "PERSPEX" Clear Cast Acrylic Sheet

PEL (OSHA) : Particulates (Not Otherwise Classified)  
15 mg/m<sup>3</sup>, 8 Hr. TWA, total dust  
5 mg/m<sup>3</sup>, 8 Hr. TWA, respirable dust  
TLV (ACGIH): None Established

## Other Applicable Exposure Limits

## METHYL METHACRYLATE

PEL (OSHA) : 100 ppm, 410 mg/m<sup>3</sup>, 8 Hr. TWA  
TLV (ACGIH): 100 ppm, 410 mg/m<sup>3</sup>, 8 Hr. TWA  
LUCITE recommended: 50 ppm, 205 mg/m<sup>3</sup>, 8 Hr. TWA, 100 ppm, 410 mg/m<sup>3</sup>, STEL

---

**PHYSICAL AND CHEMICAL PROPERTIES**

---

% Volatiles : Negligible  
Solubility in Water : Insoluble.  
Form : Sheet covered with polyethylene masking.  
Specific Gravity : 1.19

---

**STABILITY AND REACTIVITY**

---

## REACTIVITY DATA

Stability: Stable under normal conditions.  
Incompatibility: Oxidizing agents.  
Hazardous decomposition products:  
Combustion products: Carbon dioxide, carbon monoxide. Methyl methacrylate.  
Hazardous polymerization: Will not occur.

---

**TOXICOLOGICAL INFORMATION**

---

General: No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on the properties of its components.

Ingestion: The acute oral LD50 in rat is probably above 5,000 mg/kg.  
Relative to other materials, 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 eyes. If product is heated, residual monomer vapor may cause eye irritation.

Skin contact: No irritation is likely to develop following contact with human skin.

Skin absorption: This product will probably not be absorbed through human 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 effects of overexposure: No other adverse clinical effects have been associated with exposures to this material.

---

## **ECOLOGICAL INFORMATION**

---

Aquatic Toxicity: Toxicity of the polymer is expected to be low based on negligible water solubility.

---

## **DISPOSAL CONSIDERATIONS**

---

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Incinerate material in accordance with Federal, State/Provincial and Local requirements. Do not incinerate in closed containers.

Discarded product is not a RCRA hazardous waste.

---

## **TRANSPORTATION INFORMATION**

---

DOT

Proper Shipping Name: Not regulated.

---

## **REGULATORY INFORMATION**

---

Not classified as hazardous to users or for transport.

U.S. Federal Regulations

CERCLA and SARA regulations (40 CFR 355, 370 and 372): Does not contain any chemicals subject to the reporting requirements of SARA 313.

TSCA Inventory Status : Reported/Included.

Canadian Regulations:

DSL regulatory status : Included.

European Regulations:

EINECS: Polymer. Monomer included, 201-297-1 (methyl methacrylate).

---

**OTHER INFORMATION**

---

## Additional Information

NA = Not Applicable

NE = Not Established

# = Indicates updated section

## Special precautions or other comments:

The hazard and precautionary information in this MSDS is based upon our knowledge of the hazardous properties of the polymer. However, the material may also contain trace amounts (< 0.5%) of residual monomer. Molten polymer will adhere to the skin and cause severe burns. The interior of cooling, solidifying masses may remain molten for some time because of low heat conductivity of the polymer. Use care when handling such masses. Grinding and other physical operations may create dust and a potential dust explosion hazard. Under these conditions, follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. Maintain good housekeeping to avoid dust buildup. Observe OSHA PEL limitations. Avoid breathing particulates.

## STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: Contains a substance known to the State of California to cause cancer.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): None known.

**MEDICAL USE: CAUTION: DO NOT USE IN MEDICAL APPLICATIONS INVOLVING IMPLANTATION IN THE HUMAN BODY.**

Lucite International has performed no clinical testing on the use of this product in any medical application. Lucite International has no data to support the use of this product in any medical application. This product was not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Lucite International has neither sought, nor received, approval from any regulatory agency for the use of this product in implantation in the human body or for prolonged contact with internal body fluids or tissues.

-----  
The information herein is given in good faith but no warranty, expressed or implied, is made. Lucite International assumes no responsibility for personal injury or property damage that may arise from use of this material. Vendees or users assume all risks associated with the use of this material.

Responsibility for MSDS :

MSDS Coordinator  
Lucite International, Inc.  
2665 Fite Road  
Memphis, TN 38127  
901-354-1082