



# SAFETY DATA SHEET



Gemini, Incorporated: 103 Mensing Way, Cannon Falls, MN 55009 Made in the USA

Issue: 5/31/2013

## Section 1 Chemical Product and Company Identification

Product Name: **Engraving Stock/Acrylic Plastic**  
 Manufacturer: Gemini, Incorporated  
 Telephone: 507-263-3957 Fax: 507-263-4887  
 Address: 103 Mensing Way, Cannon Falls, MN 55009  
 Formula: Mixed Chemical ID: Polymethyl methacrylate  
 OPTIX acrylic resin (NFPA)



Potential Hazards:  
FIRE 1: RESPIRATORY 1

## Section 2 Hazards(s) Identification

Health: 1 Fire: 1 Reactivity: 0 Special: 0 →

\*Product is stable and non-hazardous as shipped.  
 Reprocessing product or sheet will produce other hazards.  
 \* Warning! Molten material will produce thermal burns.

Note: NFPA scale  
 0=insignificant  
 1=slight  
 2=moderate  
 3=high  
 4=extreme

## Section 3 Composition/Information on Ingredients

Ingredients	Cas#	Percent%	TWA	OSHA	
				PEL	ACGIH/TLV
1 Polymethyl methacrylate (PMMA)	9010-88-2	≤87	n/a	n/a	n/a
2 PMMA/butyl acrylate/styrene	27136-15-8	≥5.5	n/a	n/a	n/a
3 Methyl methacrylate (MMA)	80-62-6	≤.5	n/a	410 mg/m <sup>3</sup>	410 mg/m <sup>3</sup>
4 Surface film		≤1	No OSHA chemicals present		
5 Nuisance dusts (as particulates)				5mg/m <sup>3</sup>	10mg/m <sup>3</sup>

## Section 4 First Aid Measures

**\* Product as shipped does not present any health or safety hazards. Processing may release chemicals in section 3.**

Eyes Vapors from heated product can irritate the eyes. Move subject to fresh air. Flush eyes with plenty of water for at least 15 minutes. Seek medical help.

Skin Possible skin irritation. Contact with molten material can result in burns. Seek medical help.

Inhalation Inhalation from vapors when heated may cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat.

Ingestion \*Low hazard associated with normal conditions-induction of vomiting is not necessary. Seek is medical advice.

Carcinogenicity N/A

## Section 5 Fire Fighting Measures

**Extinguishing Media:** Water spray, carbon dioxide, dry chemical. Combination ABC extinguisher recommended.

**Special Fire-fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide

**General Hazards:** Does not pose a significant fire or explosion hazard as shipped. Fire and explosion may occur when material is in the form of dust and exposed to spark, heat or flames, or chemical reaction. Avoid contact with oxidizing materials.  
 \*Class B extinguisher & proper PPE are required for fire fighting.

## Section 6 Accidental Release Measures

\* No precautions are necessary for spills of bulk material.  
 \* If large quantity of dust are spilled, remove by sweeping. Do not generate airborne dust clouds due to potential for explosive dust hazards. Place dust in a labeled container and ship to a recycler.

## Section 7 Handling and Storage

\* Dust and scraps should be recycled.  
 \* CAB should be stored in dry areas only.  
 \* Any waste disposal must meet federal, state, and local laws and regulations.  
 \* In general, any waste stream must be tested or the generator must have absolute knowledge of toxicity levels.

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**Section 8 Exposure Controls/Personal Protection**

Ventilation: Local exhaust is required when dust or vapor is above the OSHA PEL or TWA limits.  
Respiratory Protection: NIOSH or MSHA approved respirators are recommended. Respirator is required when exposure is above OSHA PEL or TWA.  
Gloves: Recommended when handling sharp edges and hot materials.  
Eyes: Safety glasses or goggles should be worn when exposed to dust or hot materials.  
Special PPE: If close proximity to molten product wear face shield.  
If material is heated, wear gloves to protect against thermal burn.

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**Section 9 Physical and Chemical Properties**

\*Physical State: Solid  
\*Flash Point: Not applicable \*Specific Gravity (water =1) >1 estimated  
Combustible Solid \*Odor: Slight  
\*Vapor Density (air =1): Not applicable Auto ignition temp: >300°C  
\*Solubility in water: Not applicable Melting: >220°C

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**Section 10 Stability and Reactivity**

Stability: \*Stable at room temperature. Stable as shipped.  
\*Stability untested when process.  
Incompatibility: \*Reacts with strong oxidizing agents, acids, and bases.  
Hazardous Polymerization: \* Will not occur.  
Hazardous decomposition: thermal decomposition or combustion may emit vapors, CO, and CO<sub>2</sub>  
Conditions to avoid: Temperatures >300°C

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**Section 11 Toxicological Information**

General: The additives are embedded in a tough plastic matrix which minimizes the likelihood of exposure to additives. Exposure is unlikely as shipped.

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**Section 12 Ecological Information**

\* **Products as shipped pose no ecological hazards.**  
Thermal decomposition: thermal decomposition or combustion may emit vapors, CO, and CO<sub>2</sub>

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**Section 13 Disposal Considerations**

\* **Product as shipped is not hazardous.**  
\* Dust and scraps should be recycled.  
\* Any waste generated/disposal must meet federal, state, and local laws and regulations.  
\* In general, any additives containing metals should be tested locally for toxicity for disposal determination.  
\* Incineration is suggest. Discharge, treatment, or waste may be subject to state and local laws.

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**Section 14 Transport Information (not regulated)**

**Product is not regulated and is not classified by DOT as hazardous**

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**Section 15 Regulatory Information**

\* Gemini's products meet OSHA 1910.1200 section (6) as articles. SDS is not required if the form is not altered. This SDS is produced as additional information for those who intend on altering this product and generating dust, vapors, and wastes in the process.

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**Section 16 Other Information none**

Ref: Safe data from resin supplier  
OPTIX CP - 1000