



SCIENTIFIC POLYMER PRODUCTS, INC.  
**MATERIAL SAFETY DATA SHEET**

Effective Date: 06/96  
Revision Date: 09/01

Catalog Number: 037B  
Page Number: 1

Scientific Polymer urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material of the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information.

**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**1.1 IDENTIFICATION**

Product Name	Poly(methyl methacrylate)		
Chemical Family	N/A	Molecular Formula	(C <sub>5</sub> H <sub>8</sub> O <sub>2</sub> ) <sub>x</sub>
Synonyms	None		

**1.2 COMPANY IDENTIFICATION**

Scientific Polymer Products, Inc. 6262 Dean Parkway Ontario, NY 14519	Telephone: (585) 265-0413
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**1.3 EMERGENCY TELEPHONE NUMBER**

24 hours a day: CHEM-TEL 1-800-255-3924

**2. COMPOSITION INFORMATION**

<u>Component</u>	<u>CAS#</u>	<u>%</u>
Poly(methyl methacrylate)	9011-14-7	>99

**3. HAZARDS INFORMATION**

**3.1 EMERGENCY OVERVIEW**

Appearance	N/A	Physical State	Beads
Odor	Typical "methacrylate"		



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### **Hazards of Product**

CAUTION - Spillages may be slippery. May evolve irritating fumes on processing. This material is not intended for applications involving elevated temperatures.

### **3.2 POTENTIAL HEALTH EFFECTS**

#### **Effects of Overexposure:**

Eyes: Dust 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.

## **4. FIRST AID PROCEDURES**

### **4.1 INHALATION**

Remove patient from exposure. Obtain medical attention if ill effects occur

### **4.2 EYE CONTACT**

Remove particles by irrigating with eye wash solution or clean water, holding eyelids apart. Obtain medical attention.

### **4.3 SKIN CONTACT**

Wash skin with soap and water.

### **4.4 SWALLOWING**

Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

### **4.5 NOTES TO PHYSICIAN**

None known

## **5. FIRE FIGHTING MEASURES**

### **5.1 FLAMMABLE PROPERTIES**

**Flash Point:** 572EF                      ASTM D1929  
**Autoignition Temperature:** N/A

#### **Flammable Limits in Air:**

Lower: N/A                      Upper: N/A



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## 5.2 EXTINGUISHING MEDIA

Water spray, foam, dry powder, CO2

## 5.3 SPECIAL FIREFIGHTING PROCEDURES

Equipment should be thoroughly washed after each use.

## 5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

An approved, self-contained breathing apparatus should be worn.

## 5.5 UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustible but not readily ignited. May form explosible dust clouds in air. May decompose if heated above 200EC.

## 5.6 HAZARDOUS COMBUSTION PRODUCTS

Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors

# 6. ACCIDENTAL RELEASE MEASURES

## Steps to be Taken if Material is Released or Spilled:

CAUTION - spillages may be slippery. Sweep up and place in a suitable container for disposal. Wash the spill area with water.

# 7. HANDLING AND STORAGE

## 7.1 HANDLING

Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of high concentrations of dust.

## 7.2 STORAGE

Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## 8.1 EXPOSURE LIMITS

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

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



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## 8.2 PERSONAL PROTECTION

**Respiratory Protection:** Under normal conditions of use, respiratory protection should not be required  
**Skin Protection:** N/A  
**Eye Protection:** Safety glasses  
**Ventilation:** When this material is heated, provide fresh air and/or exhaust to remove the hot processing fumes from the work area.

**Other Protective Equipment:**  
Eye bath, safety shower

## 8.3 ENGINEERING CONTROLS

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	N/A	<b>Appearance</b>	Beads
Specific Gravity:	1.20 (25EC)	Refractive Index:	$n_d^{20}$ 1.43
Tg:	98EC	Inherent Viscosity:	0.40
% Volatiles:	< 1	Solubility in Water:	Negligible

## 10. STABILITY AND REACTIVITY

Stability	Stable
Hazardous Polymerization	Will not occur
Conditions to Avoid	None known
Materials to Avoid	None known

## 11. TOXICOLOGICAL INFORMATION

High concentrations of dust may be irritating to the upper respiratory tract. High concentrations of vapor from hot operations may be harmful, cause irritation of the respiratory tract, and slight narcotic effects



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**12. ECOLOGICAL INFORMATION**

Environmental Fate and Distribution High tonnage material produced in partially contained systems. Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation: The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment: The product is anticipated to be poorly removed in biological treatment process.

**13. DISPOSAL CONSIDERATIONS**

Waste Disposal Methods:

Dispose of as a non-hazardous waste. Comply with all Federal, State and Local regulations.

**14. TRANSPORT INFORMATION**

Shipping Name: Not regulated  
Hazard Class: N/A  
Packing Group: N/A  
UN#: N/A

**15. REGULATORY INFORMATION**

TSCA Inventory: Reported/Included

Canadian Regulations: DSL Regulatory Status: Included

European Regulations:

EINECS: Polymer, monomers included, 201-297-1 (methyl methacrylate): 201-204-4 (methacrylic acid)



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<b>16. OTHER INFORMATION</b>
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**HMIS HAZARD RATING**

**HEALTH:** 0  
**FLAMMABILITY:** 1  
**REACTIVITY:** 0

**PERSONAL PROTECTION:** B

**FIRE:**

Material that must be preheated before ignition can occur.

**HEALTH:**

Materials which on exposure under fire conditions would offer no hazard beyond that of ordinary combustible material.

**REACTIVITY:**

Materials which in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

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