



## SECTION 1: IDENTIFICATION

### PRODUCT IDENTIFIER

Product Name : Methacrylate Monomer

Product Code : J-570

Intended Use(s) : Acrylic monomer for ocular prosthetics

### CONTACT INFORMATION FOR SUPPLIER OF SAFETY DATA SHEET

Factor II, Incorporated PO  
Box 1339  
5642 White Mountain Ave Lakeside  
AZ 85929  
928-537-8387  
800-332-8688  
[www.factor2.com](http://www.factor2.com)  
[sales@factor2.com](mailto:sales@factor2.com)

### EMERGENCY TELEPHONE NUMBERS

Factor II, Incorporated 928 368 7502

## SECTION 2: HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

Flammable Liquid	2
Skin Corrosion/Irritation	2
Skin Sensitizer	1
Specific Target Organ Toxicity - Single Exposure	3

### Label Elements - Pictograms, Signal Word, Hazard Statements, Precautionary Statements, & supplemental Information



Signal word (GHS-US) :

Danger

### Hazard statements:

H225 Highly flammable liquid and vapour  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H335 May cause respiratory irritation

### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces



- No smoking
- P233 Keep container tightly closed
- P240 Ground and bond container and receiving equipment
- P241 Use explosion-proof electrical/ventilation/light/.../equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P264 Wash hands and exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P321 Specific treatment (see...on this label)
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse
- P302+P352 IF ON SKIN: Wash with soap and water
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
- P370+P378 In case of fire: Use CO2 for extinction
- P405 Store locked up
- P403+P233 Store in a well-ventilated place. Keep cool
- P501 Dispose of contents/container to an authorized disposal facility

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Hazardous Components</b>	<b>Cas No.</b>	<b>Weight-%</b>	<b>GHS Ratings</b>
Methyl Methacrylate	(CAS No) 80-62-6	90-100	Skin Corrosion/Irritation 2 (H315) Skin Sensitizer 1 (H317) Specific Target Organ Toxicity - Single Exposure 3 (H335) Aquatic Toxicity A3 (H402)

*\*Component names may have been omitted to protect confidential business information (CBI) in compliance with OSHA GHS HCS §1910.1200 Appendix E. A full disclosure safety data sheet can be supplied in emergency and non-emergency situations upon written request.*



## **SECTION 4: FIRST-AID MEASURES**

### **General Advice**

Provide the SDS to medical personnel for treatment.

### **Inhalation:**

Remove victim to fresh air. Seek immediate medical attention.

### **Eye Contact:**

If product gets in the eyes, flush with lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

### **Skin Contact:**

Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.

### **Clothing:**

Remove contaminated clothing, wash thoroughly before reuse.

### **Ingestion:**

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Chemical (alcohol-resistant) foam, dry chemical or carbon dioxide.

### **Unsuitable Extinguishing Media**

Water spray or water stream may not be effective.

### **Specific Hazards Arising from the Chemical**

High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is a flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.

### **Hazardous Combustion Products**

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

### **Special Fire Fighting Procedures:**

Use a water spray or fog to reduce or direct vapors, and keep containers cool. Water may not be effective in actually extinguishing a fire involving this product. Do not enter fire area without proper protection. Fight fire from a safe location. Structural firefighters must wear SCBAs and full protective equipment. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading



fire, increasing risk of burns/injuries.

### **Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter fire area without proper protection. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray to cool unopened containers. Pressure relief system may plug with solids creating risk of overpressure.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

#### **Personal Precautions**

Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in

section 8. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse.

#### **Environmental Precautions**

Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. May contaminate water supplies/be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

### **Methods and Material for Containment and Cleaning Up**

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply.

#### **Methods for Cleaning Up**

Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Clean up materials maybe a RCRA hazardous waste, a hazardous waste determination should be qualified personnel.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

#### **Advice on Safe Handling**

Keep away from heat, sparks, and flame. Keep container closed after each use. Do NOT use localized heat source such as band heaters to heat/melt product. Do NOT use steam. Hot boxes or hot rooms are recommended for heating the product, which can be set at a maximum temperature of 60°C/140°F. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Observe precautions found on label. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers



when transferring. Refer to Section 8 for suggested exposure controls and personal protection.  
Observe precautions found on label

**Conditions for Safe Storage, Including any Incompatibilities****Storage Conditions**

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Store in accordance with National Fire Protection Association recommendations. Check inhibitor levels periodically, adding to the bulk material if needed. Maintain at a minimum, the original 2-inch headspace in the product container and do not blanket or mix with oxygen-free gas as it renders the inhibitor ineffective. Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents. Product residue may remain in empty containers. Observe all label precautions until the container is cleaned, reconditioned, or destroyed.

**Incompatible Materials**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Chemical Name / CAS No.</b>	<b>OSHA Exposure Limits</b>	<b>ACGIH Exposure Limits</b>	<b>Other Exposure Limits</b>
Methyl Methacrylate 80-62-6	100 ppm TWA; 410 mg/m <sup>3</sup> TWA	100 ppm STEL 50 ppm TWA	NIOSH: 100 ppm TWA; 410 mg/m <sup>3</sup> TWA

**Engineering Controls**

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personnel Protective Equipment (PPE)****Respiratory Protection**

A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed above. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard.

**Eye/Face Protection**

Wear safety glasses, chemical goggles when splashing is possible, when dealing with this material. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

**Skin and Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove



removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact:****Material:****Minimum layer thickness:****Break through time:****Splash contact:**

Nitrile rubber Material: Nitrile rubber

0.4 mm Minimum layer thickness: 0.11 mm

480 min Break through time: 120 min

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. An eyewash station and a safety shower are recommended. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance:** Clear**Odor:** Characteristic**Flammable Limit (Air Volume%, Lower/Upper):** N/A**Evaporation Rate:** No data available**Specific Gravity:** 0.94**Physical State:** Liquid**Flash Point:** 54 F, 12 C**Autoignition Temperature:** 421°C**Boiling Range (low - high)** 101°C**SECTION 10: STABILITY AND REACTIVITY**

**Note:** Materials listed as stable may become unstable up depletion of inhibitors (such as mequinol or hydroquinone), contact the manufacturer for exact levels and instructions on inhibitor maintenance.

**Material stability**

Stable

**Incompatible materials**

Strong oxidizers, strong reducers, free radical initiators, inert gases, oxygen scavengers. Material has strong solvent properties and can soften paint and rubber.

**Hazardous decomposition products**

Oxides of Carbon

**Hazardous polymerization may occur.**

Possibility of hazardous reactions

**SECTION 11: TOXICOLOGICAL INFORMATION****Mixture Toxicity**

Inhalation Toxicity: 4,632mg/L

**Component Toxicity**

**Routes of Exposure**

No data available

**Target Organs**

Eyes Skin Respiratory System

**Effects of Overexposure****Product Components Listed as Carcinogenic**

Cas Number	Description	%weight	Carcinogen Rating
None			No Data Available

**SECTION 12: ECOLOGICAL INFORMATION****Component Ecotoxicity****Methyl Methacrylate**

96 Hr LC50 Pimephales promelas: 243 - 275 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 125.5 - 190.7 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 170 - 206 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 153.9 - 341.8 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: >79 mg/L [flowthrough]; 96 Hr LC50 Oncorhynchus mykiss: >79 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 326.4 - 426.9 mg/L [static] 48 Hr EC50 Daphnia magna: 69 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 170 mg/L

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

When discarded it is a hazardous waste by the EPA under RCRA. The reportable quantity (RQ) for Ethyl Methacrylate is 1000 pounds (40 CFR Part 302). After addition of excess inhibitor, dispose waste material in accordance with Federal, State, and Local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste. Comply with all applicable federal, state, and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

**Contaminated Packaging**

Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards, due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations

**SECTION 14: TRANSPORT INFORMATION**

Agency	Proper Shipping Name	UN Number	Packing group	Haz. class
DOT	METHYL METHACRYLATE MONOMER, STABILIZED RQ: 1000lbs	UN1247	II	3
IATA	METHYL METHACRYLATE MONOMER,	UN1247	II	3



## Factor II, Incorporated

The Art, Science and Technology of  
Silicones and Prosthetics...

## \*Safety Data Sheet\*

J-570

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	STABILIZED			
IMDG	METHYL METHACRYLATE MONOMER, STABILIZED	UN1247	II	3

### SECTION 15: REGULATORY INFORMATION

#### State of California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: - None

#### SARA 313

Methyl Methacrylate 80-62-6

#### US State Right-to-Know Regulations

- None

Country	Regulation	All Components Listed
	EINECS	Yes
	SARA Hazard categories	Yes
	TSCA Inventory	Yes

#### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### SECTION 16: OTHER INFORMATION

#### Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	2
PERSONAL PROTECTION	B

#### HMIS & NFPA Hazard Rating

Legend

\* = Chronic Health Hazard

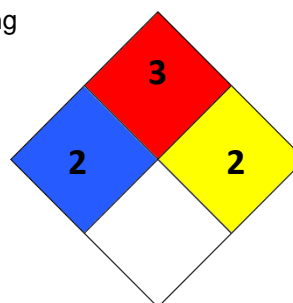
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

#### National Fire Protection Association (NFPA)



Red	Flammability
Blue	Health
Yellow	Reactivity
White	Special Hazard



**DISCLAIMER / STATEMENT OF LIABILITY:**

*This is to certify that the above designated material has been tested and did comply with the listed specifications (with listed exceptions) when supplied in original container. The material is subject to the conditions listed on the invoice. The above is a copy of information on file. The lot acceptance data are available for examination. This is a computer-generated document that is valid without a signature. The information above is supplied in good faith and, to the best of our knowledge, is based on available sources believed to be reliable and accurate. This document and any information provided herein are for your guidance only. The use by the requestor is beyond Factor II control; therefore, the responsibility for appropriate and safe use of the above information lies with the End user. Factor II shall not be responsible for any misuse and/or misapplication of the information in this document.*

*Factor II, Inc. urges each customer or recipient of this SDS 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/or fire prevention as necessary or appropriate to the use and understanding of the data contained in this SDS. To promote safe handling each customer or recipient should 1) notify and furnish its employees, agents, contractors, customers and/or others whom it knows or believes will use this material of the information regarding hazards or safety, and 2) request its customers to notify their employees, customers and other users of the product of this information.*