



## Safety Data Sheet

### Cymer PHPM

Contains MEHQ <2500 ppm and BHT <1000 ppm

### 3-PHENOXY-2-HYDROXYPROPYL METHACRYLATE

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Cymer PHPM (3-phenoxy-2-hydroxypropyl methacrylate)

**Synonyms:** 3-phenoxy-2-hydroxypropyl methacrylate

2-hydroxy-3-phenoxypropyl methacrylate

2-hydroxy-3-phenoxypropylester

2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester

**Company Identification:**

Cymer, LLC

124 Cymer Lane

Decatur, TN 37322

**For information, call:** 423-334-2778

**For CHEMTEL assistance, call:** 1-888.255.3924

**For International CHEMTEL assistance, call:** +1.813.248.0573

#### Section 2 - Hazards Identification

##### Emergency Overview

##### OSHA Hazards

Irritant

##### Other hazards which do not result in classification

Possible sensitizer.


##### GHS Classification

Skin irritation (Category 3)

Eye irritation (Category 2A)

Hazardous to the Aquatic Environment

##### GHS Label elements, including precautionary statements

Pictogram	
Signal word	Warning

**Hazard statement(s)**

H317: May cause an allergic skin reaction  
H319 Causes eye irritation.  
H335 May cause respiratory irritation.  
H402 Harmful to aquatic life.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMS Classification**

**Health hazard:** 1  
**Chronic Health Hazard:** \*  
**Flammability:** 1  
**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 1  
**Fire:** 1  
**Reactivity Hazard:** 1

**Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

**Section 3 - Composition, Information on Ingredients**

**Cymer PPHM (3-phenoxy-2-hydroxypropyl methacrylate)**

**Synonyms:** 3-phenoxy-2-hydroxypropyl methacrylate

2-hydroxy-3-phenoxypropyl methacrylate

2-hydroxy-3-phenoxypropylester

2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester

Formula : C<sub>13</sub>H<sub>16</sub>O<sub>4</sub>

Molecular Weight : 236.26 g/mol

CAS#	Chemical Name	Percent	EINECS/ELINCS
16926-87-7	2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester	99-100	240-994-5

#### Mixture Components:

p-METHOXYPHENOL (MEHQ) >0.25% **RTECS Number:** SL7700000 **Selected LD50s and LC50s** Oral LD50 Rat:1600 mg/kg. **Hazards:** Eye and skin irritation, corneal damage, CNS depression.

Butylated hydroxytoluene (BHT) >0.1% **RTECS:** GO7875000 **Selected LD50s and LC50s** Oral Oral - rat - 890.0 mg/kg **Hazards:** serious eye irritation, skin irritation.

## Section 4 - First Aid Measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician. Remove all contaminated clothing.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting.

## Section 5 - Fire Fighting Measures

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

#### Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Hydrogen chloride gas, zinc oxides.

## Section 6 - Accidental Release Measures

#### Personal precautions

Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gases.

#### Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### Precautions for safe handling

Avoid contact with skin and eyes.

Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Storage below 110°F and above 32 °F.

Avoid inhibitor depletion.

## Section 8 - Exposure Controls, Personal Protection

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester	none listed	none listed	none listed

**OSHA Vacated PELs:** 2-Propenoic acid, 2-methyl-, 2-hydroxy-3-phenoxypropyl ester: No OSHA Vacated PELs are listed for this chemical.

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

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.

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### 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.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

**Physical State:** Light amber liquid

**Appearance:** Light yellow to slightly amber

**Odor:** Mild

**Odor: Threshold:** Not available.

**pH:** Not available.  
**Vapor Pressure:** Not available.  
**Vapor Density:** Not available.  
**Ignition temperature:** Not available.  
**Auto ignition temperature:** Not available.  
**Lower explosion limit:** Not available.  
**Upper explosion limit:** Not available.  
**Flash point:** Not available.  
**Evaporation Rate:** Not available.  
**Viscosity:** Not available.  
**Boiling Point:** > 300° F.  
**Freezing/Melting Point:** no data available  
**Decomposition Temperature:** Not available.  
**Solubility:** no data available  
**Specific Gravity/Density:** 1.1 @ 75 ° F.  
**Molecular Formula:** C13H16O4  
**Molecular Weight:** 236.26 g/mol

## Section 10 - Stability and Reactivity

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

Polymerization can occur, exothermically.

### **Conditions to avoid**

Storage above 110°F and below 32 °F. Avoid inhibitor depletion.

### **Materials to avoid**

Avoid strong oxidizers, acids, or alkalis, free radical initiators and inert gases.

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, organic vapors.

**Hazardous Polymerization:** Polymerization can occur, exothermically.

## Section 11 - Toxicological Information

### **Acute toxicity**

#### **Oral LD50**

No data available

#### **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

#### **Other information on acute toxicity**

No data available

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation

**Ingestion** May harmful if swallowed.

**Skin** May causes skin irritation.

**Eyes** Causes eye irritation.

**Signs and Symptoms of Exposure**

Cough, Shortness of breath, Headache, Nausea, Vomiting, burning of eyes and skin.

**Synergistic effects**

No data available

**Additional Information**

Section 12 - Ecological Information

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

Professional handling and disposal should be used to eliminate environmental hazards.

Harmful to aquatic life.

No data available

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**Contaminated packaging**

Dispose of as unused product.

## Section 14 - Transport Information

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## Section 15 - Regulatory Information

**OSHA Hazards**

Irritant.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

p-METHOXYPHENOL (MEHQ)	150-76-5	2010-07-01
Butylated hydroxytoluene (BHT)	128-37-0	2007-03-01

**Pennsylvania Right To Know Components**

Name	CAS-No.	Revision Date
p-METHOXYPHENOL (MEHQ)	150-76-5	2010-07-01
Butylated hydroxytoluene (BHT)	128-37-0	2007-03-01

**New Jersey Right To Know Components**

Name	CAS-No.	Revision Date
p-METHOXYPHENOL (MEHQ)	150-76-5	2010-07-01
Butylated hydroxytoluene (BHT)	128-37-0	2007-03-01

**California Prop. 65 Components**

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

## Section 16 - Additional Information

**MSDS Creation Date: 2/15/2013**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Cymer, LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Cymer has been advised of the possibility of such damages.*