



Section 1. Product and Company Identification

**Product Name** Stearyl Methacrylate

**Parchem - fine & specialty chemicals**

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**New Rochelle, NY 10801**

**(914) 654-6800 (914) 654-6899**

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

Not classified as a hazardous substance or mixture

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements**

None

Section 3. Composition / Information on Ingredients

**Common Name** Stearyl Methacrylate

COMPONENT	CAS NUMBER	CONCENTRATION
2-Propenoic acid, 2-Methyl-, Octadecyl Ester	32360-05-7	≤ 67%
2-Propenoic acid, 2-Methyl-, Hexadecyl Ester	2495-27-4	≤ 33%

Section 4. First Aid Measures

**Inhalation:** If inhaled, remove victim to fresh air.

**Skin:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:** Immediately flush eye(s) with plenty of water.

**Ingestion:** If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

Section 5. Firefighting Measures

**Extinguishing media (suitable):** Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical



**Protective equipment:** Fire fighters and others who may be exposed to products of combustion should wear full firefighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:** Fight fire from a protected location. Cool closed containers exposed to fire with water spray. Closed containers of this material may explode when subjected to heat from surrounding fire. Firefighting equipment should be thoroughly decontaminated after use.

### Fire and explosion hazards

**When burned, the following hazardous products of combustion can occur:** Carbon oxides; Hazardous organic compounds. Polymerization is exothermic and can degenerate into an uncontrolled reaction.

### Section 6. Accidental Release Measures

**In case of spill or leak:** Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid dust formation and dispersal of dust in the air. Sweep or scoop up using non-sparking tools and place into suitable properly labeled containers for prompt disposal. The sweepings should be wetted down with water. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

### Section 7. Handling and Storage

#### Handling

**General information on handling:** Avoid breathing processing fumes or vapors. Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Viscous materials and those supplied as solids at room temperature may require heating to facilitate handling and transfer from their original containers. This product may be heated to a maximum of 60°C/140°F for up to 24 hours. Do NOT use localized heat sources such as band heaters or steam. Use hot boxes or hot rooms for heating or melting. Ensure air space (oxygen) is present during product heating/melting. Do not overheat-this may compromise product quality and/or result in an uncontrolled hazardous polymerization. This product should be consumed in its entirety after heating/melting. Avoid re-heating multiple times; this may cause product degradation. If this product freezes, heat it as specified above and mix gently to redistribute the inhibitor.

#### Storage

**General information on storage conditions:** Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

**Storage stability - Remarks:** Inhibitor levels should be maintained. The typical shelf-life for this product is 6 months.

**Storage incompatibility - General:** Strong oxidizing agents; Strong reducing agents; Free radical generators; Inert gas; Oxygen scavenger; Peroxides



**Temperature tolerance - Do not store below:** 32°F (0°C)

**Temperature tolerance - Do not store above:** 100°F (38°C)

#### Section 8. Exposure Controls / Personal Protection

##### **Airborne Exposure Guidelines**

**Engineering controls:** Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Respiratory protection:** Avoid breathing processing fumes or vapors. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:** Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Avoid natural rubber gloves. Wash hands and contaminated skin thoroughly after handling.

**Eye protection:** Use good industrial practice to avoid eye contact.

#### Section 9. Physical and Chemical Properties

**Color:** White

**Physical state:** Solid

**Form:** Wax-like

**Odor:** Musty

**Odor Threshold:** No data available

**Flash point (Pensky-Martens Closed Cup):** > 230°F (110°C)

**Auto-ignition temperature:** No data available

**Lower flammable limit (LFL):** No data available

**Upper flammable limit (UFL):** No data available

**pH:** ~ 7

**Density:** No data available

**Specific Gravity (Relative density):** 0.866 (77°F/25°C)

**Vapor pressure:** No data available

**Vapor density:** No data available

**Boiling point/boiling range:** No data available

**Freezing point:** No data available

**Melting point/range:** 75°F (24°C)



**Evaporation rate:** No data available  
**Solubility in water:** Negligible  
**Viscosity, dynamic (77°F/25°C):** 14 mPa\*s (Method: Brookfield)  
**Oil/water partition coefficient:** No data available  
**Thermal decomposition:** No data available  
**Flammability (solid, gas):** Not relevant

#### Section 10. Stability and Reactivity

**Stability:** This material is chemically stable under normal and anticipated storage, handling and processing conditions. However, this material can undergo hazardous polymerization.

**Hazardous reactions:** Hazardous polymerization may occur. Polymerization is exothermic and can degenerate into an uncontrolled reaction.

**Materials to avoid:** Strong oxidizing agents; Strong reducing agents; Free radical generators; Inert gas; Oxygen scavenger; Peroxides

**Conditions / hazards to avoid:** This material polymerizes exothermically in the presence of heat, contamination, oxygen free atmosphere, free radicals, peroxides and inhibitor depletion liberating heat. Avoid direct sunlight. Do NOT expose to ultraviolet light.

#### Hazardous decomposition products

**Thermal decomposition giving flammable and toxic products:** Carbon oxides; Methacrylates; Hazardous organic compounds;

#### Section 11. Toxicological Information

**Data on this material and/or its components are summarized below.**

**Oral:** Acute toxicity estimate > 5,000 mg/kg.

#### Data for 2-Propenoic acid, 2-methyl-, octadecyl ester (32360-05-7)

##### Acute toxicity

**Dermal:** No deaths occurred. (Rat) LD<sub>0</sub> 2,000 mg/kg.

**Skin Irritation:** Causes mild skin irritation. (Rabbit) Irritation Index: 4,5/8,0. (24 h)

**Eye Irritation:** Not irritating. (Rabbit) (24 h)

**Skin Sensitization:** Not a sensitizer. Guinea pig maximization test. (Guinea pig) No skin allergy was observed.

##### Genotoxicity

**Assessment in Vitro:** No genetic changes were observed in a laboratory test using: bacteria

**Assessment in Vivo:** No genetic changes were observed in a laboratory test using: mice

**Other information:** The information presented is from representative materials in this chemical class. The results may vary depending on the test substance. Possible cross sensitization with other acrylates and methacrylates



**Data for Hexadecyl methacrylate (2495-27-4)**

**Other information:** The information presented is from representative materials in this chemical class. The results may vary depending on the test substance. Possible cross sensitization with other acrylates and methacrylates

Section 12. Ecological Information

**Chemical Fate and Pathway:** Data on this material and/or its components are summarized below.

**Data for 2-Propenoic acid, 2-methyl-, octadecyl ester (32360-05-7)**

**Biodegradation:** Readily biodegradable. (28 d) biodegradation 79 - 87 %

**Ecotoxicology:** Data on this material and/or its components are summarized below.

**Data for 2-Propenoic acid, 2-methyl-, octadecyl ester (32360-05-7)**

**Aquatic toxicity data**

Practically nontoxic. Brachydanio rerio (zebrafish) 96 h LC50 > 10,000 mg/l (nominal concentrations reported)

Practically nontoxic. Leuciscus idus (Golden orfe) 48 h LC50 1,100 mg/l (nominal concentrations reported)

**Microorganisms:** Growth inhibition / Pseudomonas fluorescens 16 h > 730 mg/l

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**US Department of Transportation (DOT):** Not regulated

**International Maritime Dangerous Goods Code (IMDG):** Not regulated

Section 15. Regulatory Information

Chemical	Inventory	Status
EU. EINECS	EINECS	Conforms
US. Toxic Substances Control Act	TSCA	The components of this product are all on the TSCA Inventory.
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	Conforms



Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL.
Japan. Kashin-Hou Law List	ENCS (JP)	Conforms
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	Conforms
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	Conforms
China. Inventory of Existing Chemical Substances	IECSC (CN)	Conforms

### United States - Federal Regulations

**SARA Title III - Section 302 Extremely Hazardous Chemicals:** The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

**SARA Title III - Section 311/312 Hazard Categories:** Reactivity Hazard

**SARA Title III - Section 313 Toxic Chemicals:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

**- Reportable Quantity (RQ):** The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

### United States - State Regulations

**New Jersey Right to Know:** No components are subject to the New Jersey Right to Know Act.

#### Pennsylvania Right to Know

2-Propenoic acid, 2-methyl-, Octadecyl ester (CAS-No. 32360-05-7)

2-Propenoic acid, 2-methyl-, Hexadecyl ester (CAS-No. 2495-27-4)

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Benzene, methyl- (CAS-No. 108-88-3)

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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