

## FC07-OFPMA

## Octafluoropentyl Methacrylate

Revised 19-November-2016

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**1. PRODUCT AND COMPANY IDENTIFICATION**


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**Product Identifier**

Product Name	2,2,3,3,4,4,5,5-Octafluoropentyl methacrylate
Catalog Number	FC07- OFPMA
Brand	Fluoryx Labs
CAS Number	355-93-1

**Relevant identified uses of the Substance or mixture and uses advised against**

Identified uses	Laboratory chemicals. Manufacture of substances.
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**Details of the supplier of the safety data sheet**

Company

**Fluoryx Labs**

3650 Research Way, #22  
 Carson City, NV 89706  
 USA  
 +1 (510) 329-9149 (Telephone)  
 +1 (510) 686-8799 (Fax)  
 www.fluoryx.com

**Emergency call (ChemTel)**

+01-813-248-0585 (International)  
 +1-800-255-3924 (USA)

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**2. HAZARDS IDENTIFICATION**


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**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 4)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity - single exposure  
 (Category 3), Respiratory system

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

**Hazard statement(s)**

H227	Combustible liquid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

**Precautionary statement(s)**

P261  
P305 + P351 + P338

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

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

**Synonyms** 1*H*,1*H*,5*H*-Octafluoropentyl methacrylate;  
2,2,3,3,4,4,5,5-Octafluoropentyl 2-methylacrylate;  
2-Propenoic acid, 2-methyl-, 2,2,3,3,4,4,5,5-octafluoropentyl ester;  
1*H*,1*H*,5*H*-Perfluoropentyl methacrylate;  
Methacrylic acid 1*H*,1*H*,5*H*-octafluoropentyl ester;  
Daikin M-5410®;  
2-Methylpropenoic acid 2,2,3,3,4,4,5,5-octafluoropentyl ester

**Formula:** CH<sub>2</sub>=C(CH<sub>3</sub>)C(O)OCH<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>CF<sub>2</sub>H  
C<sub>9</sub>H<sub>8</sub>F<sub>8</sub>O<sub>2</sub>

**Molecular weight** 300.15 g/mol

**CAS number** 355-93-1

**EC number** 206-596-0

**Hazardous components**

Component	Classification	Concentration
Octafluoropentyl methacrylate	Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H227, H315, H319, H335	≤100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

**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.

**In case of eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed** - No data available

**5. FIREFIGHTING 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 fire fighting.

**Hazardous combustion products** Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

**Further information** Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods for cleaning up** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - no smoking. Take measures to prevent the build up of electrostatic charge.

**Conditions for Safe Storage** Keep container tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

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

**Personal protective equipment**

**Eye/face 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 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.

**Body protection** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**


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**Appearance**

Form	Liquid
Color	Colorless

**Safety Data**

pH	Not measured
Melting Point/Freezing Point	-46 °C
Boiling Point	88 °C @ 40 mm Hg
Flash Point	81 °C (closed cup)
Ignition Temperature	No data available
Auto-ignition Temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	No data available
Density	1.43 g/mL @ 25 °C
Water Solubility	Insoluble
Partition Coefficient ( <i>n</i> -octanol/water)	No data available
Relative Vapor Density (Air = 1)	> 1
Odor	Acrylic
Odor Threshold	No data available
Evaporation Rate	No data available
Oxidizing Properties	No data available
Viscosity	No data available

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**10. STABILITY AND REACTIVITY**


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<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content (MEHQ) often adding to bulk liquid if needed.
<b>Conditions to avoid</b>	Heat, light.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	In combustion, emits toxic fumes including carbon monoxide, carbon dioxide, and hydrogen fluoride.

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**11. TOXICOLOGICAL INFORMATION**


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**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 (Globally Harmonized System)**

**Single exposure**

Inhalation – may cause respiratory irritation.

**Repeated exposure**

No data available

**Aspiration hazard**

No data available

**Signs and Symptoms of Exposure:**

No data available

**Synergistic effects**

No data available

**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**12. ECOLOGICAL INFORMATION**

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**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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS**

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**Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer non-recyclable solutions to a

licensed disposal company or contact Fluorix to return unused product.

**Contaminated Packaging**

Dispose of as unused product.

**14. TRANSPORTATION INFORMATION**

<b>DOT (US)</b>	NA-Number: 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (2,2,3,3,4,4,5,5-Octafluoropentyl methacrylate) Marine pollutant: No Poison Inhalation Hazard: No
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

**15. REGULATORY INFORMATION**

<b>TSCA Inventory</b>	Not listed
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	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.
<b>SARA 311/312 Hazards</b>	Fire Hazard
<b>Massachusetts Right To Know Components</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right To Know Components</b>	2,2,3,3,4,4,5,5-Octafluoropentyl methacrylate CAS-No. 355-93-1
<b>New Jersey Right To Know Components</b>	2,2,3,3,4,4,5,5-Octafluoropentyl methacrylate CAS-No. 355-93-1
<b>California Prop. 65 Components</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

**Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
H227	Combustible liquid.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

**HMIS Classification**

Health hazard	0
Flammability	2
Physical hazards	0

**NFPA Rating**

Health hazard	0
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Fire  
Reactivity hazard

2  
0

**Further Information**

Not for drug, household, or other uses. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. Unless noted to the contrary, the technical information applies only to pure product.

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End of SDS