

FC07-08

## 2-(Perfluorooctyl)ethyl Methacrylate

Revised 19-November-2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Name	2-(Perfluorooctyl)ethyl methacrylate
Catalog Number	FC07-08
Brand	Fluoryx Labs
CAS Number	1996-88-9

**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	<b>Fluoryx Labs</b> 3650 Research Way, #22 Carson City, NV 89706 USA +1 (510) 329-9149 (Telephone) +1 (510) 686-8799 (Fax) www.fluoryx.com
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**Emergency call (ChemTel)**

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

### 2. HAZARDS IDENTIFICATION

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

Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), respiratory system, H335

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

**Hazard statement(s)**

H315
H320
H335

Causes skin irritation.
Causes eye irritation.
May cause respiratory irritation.

**Precautionary statement(s)**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before reuse.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Synonyms** 1H,1H,2H,2H-Heptadecafluorodecyl-1-methacrylate;  
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecyl methacrylate;  
1H,1H,2H,2H-perfluorodecyl methacrylate;  
2-Propenoic acid,2-methyl-,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl ester;  
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methylprop-2-enoate

**Formula:**  $\text{CH}_2=\text{C}(\text{CH}_3)\text{C}(\text{O})\text{OCH}_2\text{CH}_2(\text{CF}_2)_8\text{F}$   
 $\text{C}_{14}\text{H}_9\text{F}_{17}\text{O}_2$

**Molecular weight** 532.19 g/mol

**CAS number** 1996-88-9

**EC number** 217-877-2

#### Hazardous components

Component	Classification	Concentration
2-(Perfluorooctyl)ethyl methacrylate	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	≤100%

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

### 4. FIRST AID MEASURES

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	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**

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## 5. FIREFIGHTING MEASURES

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<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus for fire fighting.
<b>Hazardous combustion products</b>	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.
<b>Conditions for Safe Storage</b>	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

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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<b>Components with workplace control parameters</b>	Contains no substances with occupational exposure limit values.
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment</b>	
<b>Eye/face protection:</b>	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).
<b>Skin protection</b>	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.
<b>Body protection</b>	Impervious clothing. The type of protective equipment must be selected according to the

**Respiratory protection**

concentration and amount of the dangerous substance at the specific workplace.

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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	Liquid
Color	Colorless

**Safety Data**

pH	6 - 8
Melting Point/Freezing Point	-16 °C
Boiling Point	120 °C @ 4 mm Hg
Flash Point	> 110 °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	1.60 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

**10. STABILITY AND REACTIVITY**

<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 often adding to melted 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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<b>Acute toxicity</b>	Oral LD50 No data available Inhalation LC50 No data available Dermal LD50 No data available Other information on acute toxicity No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	<b>IARC</b> 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. <b>ACGIH</b> 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. <b>NTP</b> 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. <b>OSHA</b> 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.
<b>Reproductive toxicity</b>	No data available
<b>Teratogenicity</b>	No data available
<b>Specific target organ toxicity (Globally Harmonized System)</b>	
<b>Single exposure</b>	Inhalation – may cause respiratory irritation.
<b>Repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	No data available
<b>Synergistic effects</b>	No data available
<b>Additional Information</b>	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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<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	Does not readily degrade.
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>PBT and vPvB assessment</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Other adverse effects</b>	No data available

**13. DISPOSAL CONSIDERATIONS**

<b>Product</b>	Offer non-recyclable solutions to a licensed disposal company or contact Fluoryx to return unused product.
<b>Contaminated packaging</b>	Dispose of as unused product.

**14. TRANSPORTATION INFORMATION**

<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

**15. REGULATORY INFORMATION**

<b>TSCA Inventory</b>	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>	No SARA hazards.
<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>	
3,3,4,4,5,5,6,6,7,7,8,8,8,9,9,10,10,10-Heptadecafluorodecyl methacrylate	
CAS-No. 1996-88-9    Revision Date	
<b>New Jersey Right To Know Components</b>	
3,3,4,4,5,5,6,6,7,7,8,8,8,9,9,10,10,10-Heptadecafluorodecyl methacrylate	
CAS-No. 1996-88-9    Revision Date	
<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
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 Cassification**

Health hazard	1
Flammability	0
Physical hazards	0

**NFPA Rating**

Health hazard	1
Fire	0
Reactivity hazard	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