

## FC07-HFIPMAc

### Hexafluoroisopropyl Methacrylate

Revised 24-April-2023

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

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<b>Product Name</b>	Hexafluoroisopropyl methacrylate
<b>Catalog Number</b>	FC07-HFIPMAc
<b>CAS Number</b>	3063-94-3
<b>Supplier</b>	<b>Fluoryx Labs</b> 3650 Research Way, #22 Carson City, NV 89706 USA
<b>Uses</b>	Laboratory chemicals, Synthesis of substances
<b>Emergency call (VelocityEHS):</b>	+01-813-248-0585 (International) +1-800-255-3924 (USA)

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#### 2. HAZARDS INFORMATION

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##### Emergency Overview

##### GHS Classification

Flammable liquids (Category 2), H225  
 Acute toxicity, Oral (Category 4), H302  
 Acute toxicity, Inhalation (Category 4), H332  
 Acute toxicity, Dermal (Category 4), H312  
 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



Danger

##### Hazard statement(s)

H225 Highly flammable liquid and vapor.  
 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

##### Precautionary statement(s)

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.  
 Rinse mouth.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
 Rinse skin with water/ shower.  
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P337 + P313 If eye irritation persists: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS;

<b>Synonyms</b>	1,1,1,3,3,3- Hexafluoroisopropyl methacrylate; 2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate; 2-Propenoic acid, 2-methyl-, 2,2,2-trifluoro-1-(trifluoromethyl)ethyl ester
<b>Chemical formula</b>	C <sub>7</sub> H <sub>6</sub> F <sub>6</sub> O <sub>2</sub>
<b>Molecular weight</b>	236.11 g/mol
<b>CAS number</b>	3063-94-3
<b>EC number</b>	221-309-9

#### Components

Material	Classification	Concentration
Hexafluoroisopropyl methacrylate	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H225, H302, H332, H312, H315, H319, H335	≤ 100%

### 4. FIRST AID MEASURES

#### Description of first-aid measures

<b>General advice</b>	Consult a physician. Show this material 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.

**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** Dry powder, dry sand. Do not use water jet. Use water spray to cool unopened containers.

**Special protective equipment for firefighters** Wear self-contained breathing apparatus for fire fighting if necessary.

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

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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. For personal protection see section 8.

### Environmental precautions

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

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**Advice on protection against fire and explosion** Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

**For precautions see section 2.2.**

### Conditions for safe storage, including any incompatibilities

**Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must

be carefully resealed and kept upright to prevent leakage.

**Storage class**

Storage class (TRGS 510): 3: Flammable liquids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure controls**

**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**

Face shield and safety glasses 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**

Complete suit protecting against chemicals, Flame retardant antistatic protective 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 fullface 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**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Form

Liquid

Color

Colorless, clear

**Safety Data**

pH

No data available

Melting Point/Freezing Point

No data available

Boiling Point

99 °C

Flash Point

14 °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
Latent Heat of Evaporation	No data available
Vapor Pressure	48.939 hPa at 20 °C (68 °F) 237.800 hPa at 55 °C(131 °F)
Density	1.30 g/mL @ 20 °C
Water Solubility	No data available
KB Value	No data available
Relative Vapor Density (Air = 1)	> 1
Odor	None
Odor Threshold	No data available
Surface Tension	No data available
Refractive index	1.33
Viscosity	No data available

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	No data available
<b>Storage stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Vapors may form explosive mixture with air.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Strong oxidizing agents. Strong bases.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute toxicity</b>	
Oral LD50	No data available
Inhalation LC50	LC50 Inhalation - 4 h - 11 mg/L (Acute toxicity estimate)
Dermal LD50	1,100 mg/kg
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>	<p>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.</p> <p>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.</p> <p>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.</p>

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

**Specific target organ toxicity (Globally Harmonized System)**

**Single exposure** No data available

**Repeated exposure** No data available

**Aspiration Hazard** No data available

**Synergistic Effects** No data available

**Additional Information** No data available

**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** No data available

**13. DISPOSAL CONSIDERATIONS**

**Product** Offer non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact Fluoryx Labs to return unused product.

**Contaminated packaging** Dispose of as unused product.

**14. TRANSPORTATION INFORMATION**

**DOT (US)** UN number: 3272  
Class: 3  
Packing group: II  
Proper shipping name: Esters, n.o.s.  
Reportable Quantity (RQ):  
Poison Inhalation Hazard: No

**IMDG** UN number: 3272  
Class: 3  
Packing group: II EMS-No: F-E, S-D  
Proper shipping name: ESTERS, N.O.S. (2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate)

**IATA** UN number: 3272  
Class: 3  
Packing group: II  
Proper shipping name: Esters, n.o.s. (2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate)

**15. REGULATORY INFORMATION**

**TSCA Status** Active.

**DSL Status** This product does not contain components listed on the Canadian NDSL list.

**SARA 302 Components**

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

**SARA 313 Components**

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.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate;  
CAS-No. 3063-94-3

**Pennsylvania Right To Know Components**

2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate  
CAS-No. 3063-94-3

**New Jersey Right To Know Components**

2,2,2-Trifluoro-1-(trifluoromethyl)ethyl methacrylate  
CAS-No. 3063-94-3

**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.

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**16. OTHER INFORMATION**

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**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 MSDS