

FC05-06

## 2-(Perfluorohexyl)ethyl Acrylate

Revised 16-November-2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Name	2-(Perfluorohexyl)ethyl acrylate
Catalog Number	FC05-06
Brand	Fluoryx Labs
CAS no.	17527-29-6

**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:**


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

### 2. HAZARDS IDENTIFICATION

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

**GHS label elements, including precautionary statements**

Pictogram	
Signal word	Warning
Hazard statements	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary statements	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 eye protection/ face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

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.

P362: Take off contaminated clothing and wash before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** 1H,1H,2H,2H-Tridecafluorooctyl-1-acrylate;  
1H,1H,2H,2H-Perfluorooctyl acrylate;  
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl acrylate;  
1,1,2,2-Tetrahydroperfluorooctyl acrylate;  
Acrylic acid 2-(tridecafluorohexyl)ethyl ester

**Formula:**  $\text{CH}_2=\text{CHC}(\text{O})\text{OCH}_2\text{CH}_2(\text{CF}_2\text{CF}_2)_3\text{F}$   
 $\text{C}_{11}\text{H}_7\text{F}_{13}\text{O}_2$

**Molecular weight:** 418.15 g/mol

**CAS No.** 17527-29-6

**EC No.** 241-527-8

#### Hazardous components

Component	Classification	Concentration
2-(Perfluorohexyl)ethyl acrylate	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

**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:** 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. 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 fire fighting if necessary.

**Hazardous combustion products**

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

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions**

Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-Up Procedures**

Soak up with inert absorbent material and dispose of as hazardous waste. 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.

**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.

Recommended storage temperature: 2 - 8 °C

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Components with workplace control parameters**

**CAS No. 17527-29-6**

TWA 1 mg/m<sup>3</sup> (ACGIH)  
TWA 2 mg/m<sup>3</sup> (OSHA P0)  
TWA 2 mg/m<sup>3</sup> (OSHA P1)  
TWA 2 mg/m<sup>3</sup> (NIOSH REL)  
15 minute ceiling value

**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).

**Respirators:**

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).

**Skin and 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.

**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.

**Hygiene measures:**

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Boiling Point</b>	65 °C @ 20 mm Hg
<b>Melting Point</b>	-33 °C
<b>Flash Point</b>	101 °C (closed cup)
<b>Ignition Temperature</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Lower Explosion Limit</b>	No data available
<b>Upper Explosion Limit</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Relative Vapor Density</b>	>1 (air = 1)
<b>Evaporation Rate</b>	No data available
<b>Density</b>	1.554 g/mL @ 25 °C
<b>Solubility in Water</b>	Negligible
<b>pH</b>	No data available
<b>Odor</b>	Acrylic
<b>Odor Threshold</b>	No data available
<b>Form</b>	Clear liquid
<b>Color</b>	Colorless

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## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable under normal storage conditions.
<b>Conditions to Avoid:</b>	Heat and light.
<b>Materials to Avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	In combustion, emits toxic fumes including carbon monoxide, carbon dioxide, and hydrogen fluoride.
<b>Hazardous Polymerization Reactions:</b>	Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing

container. Check inhibitor content often adding to bulk liquid if needed.

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## 11. TOXICOLOGICAL INFORMATION

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### Information on toxicological effects

<b>Acute toxicity</b>	No data available
Inhalation	No data available
Dermal	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>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>Specific target organ toxicity - single exposure</b>	Inhalation - May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</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.	
Stomach - Irregularities - Based on Human Evidence (Mequinol)	
Liver - Irregularities - Based on Human Evidence	

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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>	No data available
<b>Other adverse effects</b>	No data available

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## 13. DISPOSAL CONSIDERATIONS

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<b>Product:</b>	Material should be disposed of in accordance with local, state and federal regulations. Offer non-
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recyclable solutions to a licensed disposal company or contact Fluoryx to return unused product.

**Disposal of Packaging:**

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>	Acute Health Hazard
<b>Massachusetts Right To Know Components</b>	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl acrylate CAS-No. 17527-29-6 Revision Date 2007-07-01
<b>Pennsylvania Right To Know Components</b>	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl acrylate CAS-No. 17527-29-6 Revision Date
<b>New Jersey Right To Know Components</b>	3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl acrylate CAS-No. 17527-29-6 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 Classification**

Health hazard:	2
Flammability:	1
Physical hazards:	0

**NFPA Rating**

Health hazard:	2
Fire:	1
Reactivity hazard:	0

**Further Information**

For R&D use only. 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