1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: 2-(Perfluorooctyl)ethyl acrylate
Catalog Number: FC05-08
Brand: Fluoryx Labs
CAS no.: 27905-45-9

Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Laboratory chemicals. Manufacture of substances

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture.

OSHA hazards: No known OSHA hazards.

GHS label elements: Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms
Perfluoroctyl ethyl acrylate;
2-(Perfluorooctyl) ethyl acrylate;
1H,1H,2H,2H-Heptadecafluoroctyl-1-acrylate;
1H,1H,2H,2H-Perfluorodecyl acrylate;
Acrylic acid, 1H,1H,2H,2H-heptadecafluorodecyl ester;
Acrylic acid, 1H,1H,2H,2H-perfluorodecyl ester;
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecyl acrylate;
2-Propenoic acid,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecylester;
Daikin R-1820;
Tetrahydroperfluorodecyl acrylate
**Chemical Formula:**  \( \text{CH}_2\text{=CHC(O)OCH}_2\text{CH}_2\text{(CF}_2\text{CF}_2)_4\text{F} \)  
\( C_{13}\text{H}_{27}\text{F}_{17}\text{O}_2 \)

**Molecular Weight:** 518.17 g/mol

**CAS No.:** 27905-45-9

**EC No.:** 248-722-7

No components need to be disclosed according to the applicable regulations.

### 4. FIRST AID MEASURES

**Description of first aid measures**

- **If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- **In case of skin contact:** Wash off with soap and plenty of water.
- **In case of eye contact:** Flush eyes with water as a precaution.
- **If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11.

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

### 5. FIRE FIGHTING MEASURES

**Conditions of flammability**

- **Flash point:** Not flammable or combustible
  
  113 °C (Closed cup)

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice 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:**

Avoid breathing vapors, mist or gas. For personal protection, see section 8.

**Environmental Precautions:**

Do not let product enter drains.

**Clean-Up Procedures:**

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete. For disposal, see section 13.

### 7. HANDLING AND STORAGE

**Handling Requirements:**

User exposure: avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**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. Store at 2 to 8 °C.

**Suitable Packaging:**

Must only be kept in original packaging.
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(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.

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Clear, liquid

Color

Colorless to light yellow

pH

No data available

Boiling Point

90 °C @ 4 mm Hg

Melting Point

-4 °C

Vapor Pressure

No data available

Vapor Density (Air = 1)

> 1

Saturated Vapor Conc.

No data available

Density

1.64 g/mL @ 25 °C

Odor

Acrylic

Odor Threshold

No data available

Flash Point

113 °C – closed cup

Explosion Limits

No data available

Auto Ignition Temperature

No data available

Decomposition Temperature

No data available

Oxidizing Properties

No data available

Solubility in Water

Negligible

10. STABILITY AND REACTIVITY

Stability:

Stable under normal conditions. Contains approximately 100ppm free radical inhibitor MEHQ.

Conditions to Avoid:

Heat, light.
**Materials to Avoid:**
- Strong oxidizing agents.

**Hazardous Decomposition Products:**
- In combustion, emits toxic fumes including carbon monoxide, carbon dioxide, and hydrogen fluoride.

**Hazardous Polymerization Reactions:**
- Unless inhibited, product can polymerize, raising temperature and pressure, possibly rupturing container. Check inhibitor content often adding to bulk liquid if needed.

**11. TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Oral LD50: no data available</td>
</tr>
<tr>
<td></td>
<td>Inhalation LC50: no data available</td>
</tr>
<tr>
<td></td>
<td>Dermal LD50: no data available</td>
</tr>
<tr>
<td></td>
<td>Other information on acute toxicity: no data</td>
</tr>
<tr>
<td></td>
<td>available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>IARC: No component of this product present at</td>
</tr>
<tr>
<td></td>
<td>levels greater than or equal to 0.1% is</td>
</tr>
<tr>
<td></td>
<td>identified as probable, possible or confirmed</td>
</tr>
<tr>
<td></td>
<td>human carcinogen by IARC.</td>
</tr>
<tr>
<td></td>
<td>ACGIH: No component of this product present at</td>
</tr>
<tr>
<td></td>
<td>levels greater than or equal to 0.1% is</td>
</tr>
<tr>
<td></td>
<td>identified as a carcinogen or potential</td>
</tr>
<tr>
<td></td>
<td>carcinogen by ACGIH.</td>
</tr>
<tr>
<td></td>
<td>NTP: No component of this product present at</td>
</tr>
<tr>
<td></td>
<td>levels greater than or equal to 0.1% is</td>
</tr>
<tr>
<td></td>
<td>identified as a known or anticipated carcinogen</td>
</tr>
<tr>
<td></td>
<td>by NTP.</td>
</tr>
<tr>
<td></td>
<td>OSHA: No component of this product present at</td>
</tr>
<tr>
<td></td>
<td>levels greater than or equal to 0.1% is</td>
</tr>
<tr>
<td></td>
<td>identified as a carcinogen or potential</td>
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<tr>
<td></td>
<td>carcinogen by OSHA.</td>
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<tr>
<td>Reproductive toxicity</td>
<td>No data available</td>
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<tr>
<td>Teratogenicity</td>
<td>No data available</td>
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<tr>
<td>Specific target organ toxicity</td>
<td>Single exposure (Globally Harmonized System) No</td>
</tr>
<tr>
<td></td>
<td>data available</td>
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<tr>
<td></td>
<td>Repeated exposure (Globally Harmonized System)</td>
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<tr>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
<tr>
<td>Potential health effects</td>
<td>Inhilation May be harmful if inhaled. May cause</td>
</tr>
<tr>
<td></td>
<td>respiratory tract irritation.</td>
</tr>
<tr>
<td></td>
<td>Ingestion May be harmful if swallowed.</td>
</tr>
<tr>
<td></td>
<td>Skin May be harmful if absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>May cause skin irritation.</td>
</tr>
<tr>
<td></td>
<td>Eyes May cause eye irritation.</td>
</tr>
<tr>
<td>Signs and Symptoms of Exposure</td>
<td>To the best of our knowledge, the chemical,</td>
</tr>
</tbody>
</table>
Synergistic effects
No data available

Additional Information
RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity
No data available

Persistence and degradability
Does not readily degrade.

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 unused product to Fluoryx. Offer non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards

TSCA Inventory
Listed

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
No SARA Hazards

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecyl acrylate
CAS-No. 27905-45-9, Revision Date

New Jersey Right To Know Components
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptadecafluorodecyl acrylate
CAS-No. 27905-45-9, Revision Date

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.
16. OTHER INFORMATION

HMIS Classification

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazard</td>
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<tr>
<td>Flammability</td>
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<tr>
<td>Physical hazards</td>
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</tr>
</tbody>
</table>

NFPA Rating

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazard</td>
<td>0</td>
</tr>
<tr>
<td>Fire</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>0</td>
</tr>
</tbody>
</table>

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.

To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither Fluoryx, nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes.

End of SDS