

FC05-08

2-(Perfluorooctyl)ethyl Acrylate

Revised 16-November-2016

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
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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
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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.
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OSHA hazards	No known OSHA hazards.
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GHS label elements	Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).
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Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms	Perfluorooctyl ethyl acrylate; 2-(Perfluorooctyl) ethyl acrylate; 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -Heptadecafluorooctyl-1-acrylate; 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -Perfluorodecyl acrylate; Acrylic acid, 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -heptadecafluorodecyl ester; Acrylic acid, 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -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
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Chemical Formula	CH ₂ =CHC(O)OCH ₂ CH ₂ (CF ₂ CF ₂) ₄ F C ₁₃ H ₇ F ₁₇ 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

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	
Single exposure (Globally Harmonized System)	No data available
Repeated exposure (Globally Harmonized System)	No data available
Aspiration hazard	No data available
Potential health effects	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical,

physical, and toxicological properties have not been thoroughly investigated.

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

Health hazard: 0
Flammability: 1
Physical hazards: 0

NFPA Rating

Health hazard: 0
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