

FC05-10

2-(Perfluorodecyl)ethyl Acrylate

Revised 16-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical names/**Product Identifier**

Product Name	2-(Perfluorodecyl)ethyl acrylate
Catalog Number	FC05-10
Brand	Fluoryx Labs
CAS no.	17741-60-5

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**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 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 protective gloves/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/doctor if you feel unwell.
 P321: Specific treatment (see supplemental first aid instructions on this label).
 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.
 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	Perfluorodecyl ethyl acrylate; 2-(Perfluorodecyl) ethyl acrylate; 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -Henicosafuorododecyl -1-acrylate; 1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -Perfluorododecyl acrylate; 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12- Henicosafuorododecyl acrylate
Chemical Formula	CH ₂ =CHC(O)OCH ₂ CH ₂ (CF ₂ CF ₂) ₅ F C ₁₅ H ₇ F ₂₁ O ₂
Molecular Weight	618.18 g/mol
CAS No.	17741-60-5
EC No.	241-732-2

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

4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Oral Exposure:	If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation Exposure:	If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.
Dermal Exposure:	In case of contact, immediately wash skin with soap and copious amounts of water. Consult a physician.
Eye Exposure:	In case of contact, immediately flush eyes with

copious amounts of water for at least 15 minutes.
Consult a physician.

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

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 dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental Precautions:	Do not let product enter drains.
Clean-Up Procedures:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling Requirements:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
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	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) 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

Eye protection

hands.

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.

Appropriate engineering controls

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Color	White to light yellow
pH	No data available
Boiling Point	122 °C @ 4 mm Hg
Melting Point	53 °C
Vapor Pressure	No data available
Vapor Density (Air = 1)	> 1
Saturated Vapor Conc.	No data available
Density	1.62 g/mL @ 25 °C
Odor	Mild acrylic
Odor Threshold	No data available
Flash Point	113 °C – closed cup
Explosion Limits	No data available
Autoignition 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 recommended storage conditions.
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
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12. ECOLOGICAL INFORMATION	
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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 UN number: 3077
 Class: 9
 Packing group: III
 EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
 (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl acrylate)
 Marine Pollutant

IATA UN number: 3077
 Class: 9
 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
 (3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl acrylate)

Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

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 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl acrylate
 CAS-No. 17741-60-5, Revision Date

New Jersey Right To Know Components 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Henicosafuorododecyl acrylate
 CAS-No. 17741-60-5, 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