

# Safety Data Sheet

#### FC07-10

# 2-(Perfluorodecyl)ethyl Methacrylate

Revised 19-November-2016

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name 2-(Perfluorodecyl)ethyl methacrylate

Catalog Number FC07-10
Brand Fluoryx Labs
CAS Number 2144-54-9

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

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USA

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#### 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 Warnir

**Hazard statement(s)** 

H315 Causes skin irritation. H320 Causes eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

#### FC07-10 SDS

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/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 or doctor/physician if you

feel unwell.

P362 Take off contaminated clothing and wash before

reuse.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste

disposal plant.

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

### **Synonyms**

1H,1H,2H,2H-Perfluorododecyl methacrylate;

3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-Heneicosafluorododecyl methacrylate;

1,1,2,2-Tetrahydroperfluorododecyl methacrylate;

2-Propenoic acid, 2-methyl-, 3,3,4,4,5,5,6,6,7,7,8,8-,9,9,10,10,11,11,12,12,12-heneicosafluorododecyl ester

Formula:  $C_{16}H_9F_{21}O_2$ 

 $C_{10}F_{21}CH_2CH_2OC(O)C(CH_3)CH_2$ 

 Molecular weight
 632.21 g/mol

 CAS number
 2144-54-9

 EC number
 218-408-4

Hazardous components

Component	Classification	Concentration
2-(Perfluorodecyl)ethyl methacrylate	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 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

	nd special treatment needed - No data available		
5. FIREFIGHTING 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.		
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, dust, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.		
Environmental precautions	Do not let product enter drains.		
Methods for cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.		
7. HANDLING AND STORAGE			
Precautions for Safe Handling	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.		
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place.		
	Recommended storage temperature: 2 - 8 °C		
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION			
Components with workplace control parameters	S Contains no substances with occupational exposure limit values.		
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:	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).		
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	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
	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).

Control of environmental exposure

Do not let product enter drains.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form Solid Color White

**Safety Data** 

pH No data available

Melting Point/Freezing Point 45 - 50 °C

Boiling Point 104 °C at 1 mm Hg

Flash Point > 100 °C

Ignition Temperature

Auto-ignition Temperature

Lower Explosion Limit

Upper Explosion Limit

Vapor Pressure

Density

No data available

Water Solubility Insoluble

Partition Coefficient (*n*-octanol/water) No data available

Relative Vapor Density (Air = 1) > 1
Odor Acrylic

Odor Threshold No data available
Evaporation Rate No data available
Oxidizing Properties No data available
Viscosity No data available

#### **10. STABILITY AND REACTIVITY**

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions: Unless inhibited, product can polymerize, raising

temperature and pressure, possibly rupturing container. Check inhibitor content often adding to

melted bulk liquid if needed.

Conditions to avoid Heat, light.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition products In combustion, emits toxic fumes including carbon

monoxide, carbon dioxide, and hydrogen fluoride.

# 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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory or skin sensitizationNo data availableGerm cell mutagenicityNo 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 (Globally Harmonized System)

Single exposure Inhalation – may cause respiratory irritation.

Repeated exposureNo data availableAspiration hazardNo data availableSigns and Symptoms of Exposure:No data available

Synergistic effects No data available

Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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 PBT/vPvB assessment not available as chemical

safety assessment not required/not conducted.

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Product Offer non-recyclable solutions to a licensed disposal

company or contact Fluoryx to return unused

product.

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	
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- Henicosafluorododecyl methacrylate CAS-No. 2144-54-9
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- Henicosafluorododecyl methacrylate CAS-No. 2144-54-9
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	
Full text of H-Statements referred to under sect Eye Irrit. H315 H319 H335 Skin Irrit. STOT SE	ions 2 and 3.  Eye irritation  Causes skin irritation.  Causes serious eye irritation.  May cause respiratory irritation.  Skin irritation  Specific target organ toxicity - single exposure
HMIS Cassification  Health hazard  Flammability  Physical hazards	1 0 0
NFPA Rating  Health hazard  Fire  Reactivity hazard  Further Information	1 0 0 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

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