

Safety Data Sheet

FC07-06

2-(Perfluorohexyl)ethyl Methacrylate

Revised 19-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 2-(Perfluorohexyl)ethyl methacrylate

Catalog Number FC07-06
Brand Fluoryx Labs
CAS Number 2144-53-8

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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www.fluoryx.com

Emergency call (ChemTel) +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 statement(s)

H315 Causes skin irritation.
H319 Causes serious 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.

FC07-06 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.

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

euse.

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

tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste

disposal plant.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms 1H,1H,2H,2H-Tridecafluorooctyl-1-methacrylate;

3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl methacrylate

Formula: $CH_2=C(CH_3)C(O)OCH_2CH_2(CF_2CF_2)_3F$

C₁₂H₉F₁₃O₂

Molecular weight432.18 g/molCAS number2144-53-8

EC number 218-407-9

Hazardous components

| Component | Classification | Concentration |
|--------------------------------------|--|---------------|
| 2-(Perfluorohexyl)ethyl methacrylate | Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, | ≤100% |
| | H319, H335 | |

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

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.

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.

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. 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.

Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters 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.

Respiratory protection 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 exposureDo no let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid, clear Color Colorless

Safety Data

pH No data available

Melting Point/Freezing Point -33 °C

Boiling Point 96 °C @ 10 mm Hg Flash Point 113 °C (closed cup) Ignition Temperature No data available Auto-ignition Temperature No data available Lower Explosion Limit No data available Upper Explosion Limit No data available Thermal Decomposition Temperature No data available Vapor Pressure No data available Vapor Density >1 (air = 1) Density 1.50 @ 20 °C

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

Partition Coefficient (*n*-octanol/water)

Odor Threshold

Evaporation Rate

Oxidizing Properties

Viscosity

No data available

No data available

No data available

No data available

10. STABILITY AND REACTIVITY

Water Solubility

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.

No data available

No data available

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 exposure No data available

Repeated exposure

Aspiration hazard

No data available

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. Contact Fluoryx to return unused

product.

Packaging Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US)IMDGIATANot dangerous goodsNot 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

3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl methacrylate

CAS-No. 2144-53-8 Revision Date

New Jersey Right To Know Components

3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl methacrylate

CAS-No. 2144-53-8 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

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 1
Flammability 0
Physical hazards 0

NFPA Rating

Health hazard 1
Fire 0
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