

Safety Data Sheet

FC07-N

2-(Perfluoroalkyl)ethyl Methacrylates (Mixture)

Revised 19-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 2-(Perfluoroalkyl)ethyl methacrylates (mixture)

Catalog Number FC07-N
Brand Fluoryx Labs
CAS Number 65530-66-7

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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+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. H320 Causes eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

FC07-N SDS

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/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 1*H*,1*H*,2*H*,2*H*-Perfluoroalkyl-1-methacrylates;

1*H*,1*H*,2*H*,2*H*-Perfluoroalkyl methacrylates; 2-Propenoic acid.2-methyl-,perfluoroalkyl esters;

Perfluoroalkyl 2-methylprop-2-enoates;

Poly(difluoromethylene), .alpha.-fluoro-.omega.-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]ethyl]-;

Zonyl® TM

Formula: $CH_2=C(CH_3)C(O)OCH_2CH_2(CF_2)_xF$

x = 8,10,12,...; >60% x = 8

 $C_nH_9F_mO_2$; n = 10,12,14...; m = 2n-9

Molecular weight ~568 g/mol (average)

CAS number 65530-66-7

EC number None

Hazardous components

Component	Classification	Concentration
2-(Perfluoroalkyl)ethyl methacrylates	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 s	vmptoms 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. FIREFIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry

chemical or carbon dioxide.

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Special protective equipment for fire-fighters

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 let product enter drains.

Methods for cleaning up 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.

Conditions for Safe Storage Keep container tightly closed in a dry and well-

> ventilated place. Containers that 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).

Handle with gloves. Gloves must be inspected Skin protection

> 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 not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Slush or liquid, depending on room temperature

Color Yellow to colorless

Safety Data

pH 6-8

Melting Point/Freezing Point -17 to 24 °C

Boiling Point 210 to 350 °C @ 760 mm Hg

Flash Point > 110 °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
Vapor Pressure No data available
Density 1.6 g/mL @ 25 °C

Water Solubility Insoluble

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

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

Odor Threshold

Evaporation Rate

Oxidizing Properties

Viscosity

No data available

No data available

No data available

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 toxicityNo data available **Teratogenicity**No data available

Specific target organ toxicity (Globally Harmonized System)

Single exposure Inhalation – may cause respiratory irritation.

Repeated exposure

Aspiration hazard

No data available

No data available

Signs 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 potentialNo data availableMobility in soilNo 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

42 DISPOSAL CONSIDERATIONS	
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
DSL Status	The substance is specified on the public Portion of the Domestic Substances List: Poly(difluoromethylene),ω-fluoro-γ-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]- CAS No. 65530-66-7
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	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know Components	No components are subject to the New Jersey Right to Know Act.
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 sec Eye Irrit. H315 H319 H335 Skin Irrit. STOT SE	tions 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	1

Fire Reactivity hazard

Further Information

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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