

Safety Data Sheet

FC04-05E

2-Perfiuoropropoxy-2,3,3,3-Tetrafluoropropanol

Revised 19-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 2-Perfiuoropropoxy-2,3,3,3-tetrafluoropropanol

Catalog Number FC04-05E
Brand Fluoryx Labs
CAS Number 26537-88-2

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 3650 Research Way, #22

Carson City, NV 89706

USA

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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)

P264: Wash hands thoroughly after handling.

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.

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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical

advice/attention.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms 1H,1H-Perfluoro(2-methyl-3-oxahexan-1-ol)

2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy) propan-1-ol

2-Heptafluoropropoxy-2,3,3,3-tetrafluoropropan-1-ol 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propan-1-ol 2-Perfluoropropoxy-2,3,3,3-tetrafluoropropanol 1H,1H-Undecafluoro(2-methyl-3-oxahexan-1-ol)

Chemical formula $C_6H_3F_{11}O_2$

F(CF₂)₃OCF(CF₃)CH₂OH

Molecular weight 316.07
CAS number 26537-88-2

EC number None

Hazardous components

Material	Classification	Concentration
2-Perfiuoropropoxy-2,3,3,3-tetrafiuoropropanol	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

Take off contaminated clothing and shoes

immediately. 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. Consult a physician.

If swallowed Never give anything by mouth to an unconscious

person. Do NOT induce vomiting. 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. FIREFIGHTING MEASURES

chemical or carbon dioxide.

Special protective equipment for firefighters Wear self-contained breathing apparatus and

protective clothing 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 inhalation of vapor, mist, dust, or gas. Ensure adequate ventilation. Vapors can accumulate in low areas. Evacuate personnel to safe areas.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	
Methods for cleaning up	Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method.	
7. HANDLING AND STORAGE		
Precautions for safe handling	Provide appropriate exhaust ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands immediately after contamination. Normal measures for preventive fire protection.	
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place.	
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.	
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 exposure

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid, clear Color Colorless

Safety Data

No data available Hg Melting Point/Freezing Point No data available **Boiling Point** 119 °C @ 760 mm Hg Flash Point > 110 °C (closed cup) Ignition Temperature No data available No data available **Auto-ignition Temperature** Lower Explosion Limit No data available Upper Explosion Limit No data available Thermal Decomposition Temperature No data available Vapor Pressure No data available Density 1.55 g/mL @ 20 °C

Water Solubility

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

Relative Vapor Density (Air = 1) > 1

Odor No data available
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 Polymerization will not occur. No other data

available.

Negligible

Conditions to avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

and carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 No data available

Inhalation LC50 Rat, 4hr, inhalation: Neural toxicity symptoms at

300 ppm; no deaths at 300 ppm. No effects

observed at an inhalation concentration of 100 and

200 ppm for 4 hours.

Dermal LD50

Other information on acute toxicity

No data available

Skin corrosion/irritation

No data available.

Serious eve damage/eve 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 (Globally Harmonized System)

Single exposure
Repeated exposure
No data available
No data available
No data available
No data available
Signs and Symptoms of Exposure:
No data available
Synergistic Effects
No data available

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

RTECS: Not available

thoroughly investigated.

Additional Information

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

13. DISPOSAL CONSIDERATIONS

Product Offer non-recyclable solutions to a licensed disposal

company. Contact Fluoryx Inc. 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 Status	Not on the inventory.	
DSL Status	Not 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	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	tions 2 and 3.	
Eye Irrit. STOT SE 3 H315	Eye irritant Specific target organ toxicity - single exposure (Category 3) Causes skin irritation	
H319	Causes skill littlation Causes serious eye irritation	
H335 Skin Irrit.	May cause respiratory irritation Skin irritation	
HMIS Classification	Skiii iiiitatioii	
Health hazard Flammability Physical hazards	2 0 0	
NFPA Rating Health hazard Fire Reactivity Hazard	2 0 0	
Further information	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