

Safety Data Sheet

FC04-06p

3-(Perfluorohexyl)propyl Alcohol

Revised 30-January-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 3-(Perfluorohexyl)propyl alcohol

Catalog Number FC04-06p
Brand Fluoryx Labs
CAS Number 80806-68-4

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

+1 (510) 329-9149 (Telephone) +1 (510) 686-8799 (Fax)

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)

Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements

Signal word

Warning

Hazard statement(s)

Pictogram

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.

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.

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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.

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

P337 + P313 If eve 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.

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 COMPONENTS

Synonyms 1H,1H,2H,2H,3H,3H-Perfluorononan-1-ol;

4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-1-nonanol; 1-Nonanol,4,4,5,5,6,6,7,7,8,8,9,9,9-tridecafluoro-

Formula $C_9H_7F_{13}O$

CF₃CF₂CF₂CF₂CF₂CH₂CH₂CH₂OH

 Molecular weight
 378.13

 CAS number
 80806-68-4

EC number None

Hazardous components

Material	Classification	Concentration
3-(Perfluorohexyl)propyl alcohol	Eye Irrit. 2A; H315, 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 Do NOT induce vomiting. 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 hazards arising from the substance Hazardous decomposition products formed under

fire conditions - carbon oxides and hydrogen

fluoride.

Advice for firefighters Wear self-contained breathing apparatus for fire

fighting.

Further Information: Use water spray to cool unopened containers.

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 Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Methods and materials for containment

and 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

Avoid contact with skin and eyes. Avoid inhalation of Precautions for safe handling

vapor or mist.

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 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 Respiratory protection

> 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

pH No data available

Melting Point/Freezing Point 2 °C

Boiling Point 184 °C @ 760 mm Hg Flash Point >108 °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 Vapor Density >1 (air = 1) Density 1.63 @ 20 °C Water Solubility No data available

Relative Vapor Density (Air = 1)

Partition Coefficient (*n*-octanol/water)

Odor No data available
Odor Threshold No data available
Evaporation Rate No data available
Oxidizing Properties No data available
Viscosity 56.3 mPa·s @ 21 °C

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.

Conditions to avoid Keep away from open flames and heated surfaces

above 300 °C.

No data available

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Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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Oral LD50
Inhalation LC50
Dermal LD50
Other information on acute toxicity

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.

OSHANo 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

Animal Data: The product has been reported as a slight skin

irritant in animals. In a Bacterial Reverse Mutation Test with an Independent Repeat Assay as reported by DuPont, the product did not cause a positive response in the presence and absence of Aroclor-induced rat liver S9. The product was negative in salmonella gene mutation and mammalian gene mutation assays. Product is not biodegradable.

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

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 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.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORTATION INFORMATION

IMDG Not dangerous goods

IATA Not dangerous goods

Not dangerous goods

15. REGULATORY INFORMATION

TSCA Status Listed

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 Eye irritant

Massachusetts Right To Know Components No components are subject to the Massachusetts

Right to Know Act.

Pennsylvania Right To Know Components 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-1-nonanol

CAS-No. 80806-68-4

New Jersey Right To Know Components 4,4,5,5,6,6,7,7,8,8,9,9,9-Tridecafluoro-1-nonanol

CAS-No. 80806-68-4

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 irritant

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Skin Irrit. Skin irritation

HMIS Classification

Health hazard 2
Flammability 0
Physical hazards 0

NFPA Rating

Health hazard 2 Fire 0 Reactivity Hazard

Further Information

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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