

Safety Data Sheet

FC04-04p

3-(Perfluorobutyl)propyl Alcohol

Revised 30-January-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 3-(Perfluorobutyl)propyl alcohol

Catalog Number FC04-04p
Brand Fluoryx Labs
CAS Number 83310-97-8

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

3650 Research Way, #22 Carson City, NV 89706

USA

+1 (510) 329-9149 (Telephone)

+1 (510) 686-8799 (Fax)

www.fluoryx.com

Emergency call: +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)

Flammable liquids (Category 4), H227 Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

(!)

Pictogram Signal word

Warning

Hazard statement(s)

H227 Combustible liquid
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot

surfaces. No smoking.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/

spray.

P264 Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area. P271 Wear protective gloves/ protective clothing/ eye P280

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.

Call a POISON CENTER/doctor if you feel unwell. P312 P321

Specific treatment (see supplemental first aid

instructions on this label).

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

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam for extinction.

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

tightly closed.

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

Store locked up. P405

Dispose of contents/ container to an approved waste P501

disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION AND INFORMATION ON COMPONENTS

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

4,4,5,5,6,6,7,7,7-Nonafluoro-1-heptanol; 1-Heptanol, 4, 4, 5, 5, 6, 6, 7, 7, 7-nonafluoro-;

3-(Perfluorobutyl)propanol

Formula C7H7F9O

CF3CF2CF2CF2CH2CH2CH2OH

Molecular weight 278.12

83310-97-8 **CAS** number

EC number None

Hazardous components

Material	Classification	Concentration
3-(Perfluorobutyl)propyl alcohol	Flam. Liq. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE	≤100%
	3; H227, H315, 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.

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If inhaled 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 For small (incipient) fires, use media such as

"alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be

ineffective. Cool all affected containers with flooding

quantities of water.

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 Protection: Use personal protective equipment. Avoid breathing

vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection

see section 8.

Environmental Protection: Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Spill Clean-Up: Contain spillage, and then collect with an electrically

protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable,

closed containers for disposal.

7. HANDLING AND STORAGE

Safe Handling: Avoid contact with skin and eyes. Avoid inhalation of

vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up

of electrostatic charge.

Storage: 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.

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 prior Skin protection

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 Color Colorless

Safety Data

pΗ No data available

Melting Point/Freezing Point -72 °C

Boiling Point 158 °C @ 760 mm Hg Flash Point 78 °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

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Vapor Pressure 7.71 mm Hg at 25 °C

Vapor Density >1 (air = 1)

Density 1.52 g/mL @ 20 °C Water Solubility No data available 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 19.5mPa.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 avoidHeat, flames, sparks.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition productsHazardous decomposition products formed under

fire conditions - carbon oxides, 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/irritation 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.

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

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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.

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

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

13. DISPOSAL CONSIDERATIONS

Product This combustible material may be burned in a

chemical incinerator equipped with an afterburner and scrubber. 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

DOT (US) NA-Number: 1993

Class: NONE Packing group: III

Proper shipping name: Combustible liquid, n.o.s.

(4,4,5,5,6,6,7,7,7-Nonafluoro-1-heptanol)

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG Not dangerous goods
IATA Not dangerous goods

15. REGULATORY INFORMATION

TSCA Status Listed

DSL StatusAll components of this product are not on the

Canadian DSL list.

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 Fire hazard

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

Right to Know Act.

Pennsylvania Right To Know Components 4,4,5,5,6,6,7,7,7-Nonafluoro-1-heptanol

CAS-No. 83310-97-8

Revision Date

New Jersey Right To Know Components 4,4,5,5,6,6,7,7,7-Nonafluoro-1-heptanol

CAS-No. 83310-97-8

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
Flam. Liq. Flammable liquids
H227 Combustible liquid.
H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Skin Irrit. Skin irritation

HMIS Classification

Health Hazard: 0
Flammability: 2
Physical hazards: 0

NFPA Rating

Health Hazard: 0
Fire: 2
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