

FC04-FPO

3-Fluoropropanol

Revised 02-May-2024

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier**

Product name	3-Fluoropropanol
Catalog number	FC04-FPO
Brand	Fluoryx Labs
CAS no.	462-43-1

Relevant Identified uses of the Substance or mixture and Uses Advised Against

Identified uses	Laboratory chemicals. Manufacture of substances.
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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 (VelocityEHS)

+01-813-248-0585 (International)
 +1-800-255-3924 (USA)

2. HAZARDS INFORMATION**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquid (Category 2)
 Skin corrosion/irritation (Category 2)
 Serious eye damage/eye irritation (Category 2A)
 Respiratory tract irritation (Category 3)

GHS Label Elements, Including Precautionary Statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225
 H315
 H319
 H335

Highly flammable liquid and vapor.
 Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation

Precautionary statement(s)

P210

Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
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.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms	3-Fluoro-1-propanol; 3-fluoropropan-1-ol omega-fluoropropanol; ω -fluoropropanol; 3-hydroxypropylfluoride; 1-Fluoro-3-hydroxypropane; 1-Propanol, 3-fluoro-
Chemical Formula	C ₃ H ₇ FO CHF ₂ CH ₂ OH
Molecular Weight	78.09 g/mol
CAS No.	462-43-1

Hazardous Components

Component	Classification	Concentration
3-Fluoropropanol	Flam. Liq. 2; H225, Skin Irr., 315; Ser. Eye Irr., H319	≤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 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	Immediately flush eyes with running water for at least 15 minutes while keeping eyes open. Consult a physician.
If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Give water to victim to drink. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide.
Special Hazards Arising from the Substance	Carbon oxides, hydrogen fluoride
Advice for Firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Further Information	Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid breathing vapors, 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 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 and Materials for Containment and Cleaning Up	Absorb spills on sand or vermiculite and place in closed container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid prolonged use. Avoid all direct contact with material. Do not breathe dust or vapor. Wash thoroughly after handling. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for Safe Storage	Store in dry and cool place. Keep away from heat, sparks and flames. Containers that are opened must be carefully resealed and kept upright to prevent leakage.
Other Precautions:	No open flames or sparks, no smoking. Use electrically grounded equipment. Warn people about the dangers of the product. Prevent electrostatic discharges. Provide electrical equipment safety for hazardous locations.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with published occupational exposure limit values. However, inhalation exposure should be strictly limited.

Personal Protective Equipment

Respiratory protection	Use only in a chemical fume hood or local exhaust ventilation, and process enclosure if necessary to control exposure. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a
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Hand protection

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).

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.

Eye 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 and body protection

Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid, clear
Color	Colorless

Safety Data

pH	No data available
Melting point/freezing point	No data available
Boiling point	128 °C @ 760 mm Hg
Flash point	39 °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
Density	1.04 g/mL @ 25 °C
Water solubility	Soluble
Partition Coefficient (<i>n</i> -octanol/water)	No data available
Relative vapor density (air = 1)	No data available
Odor	Alcohol
Odor threshold	No data available
Evaporation rate	No data available

10. STABILITY AND REACTIVITY

Storage Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions	Vapors may form explosive mixture with air.
Conditions to Avoid	Heat, flames and sparks. Extremes of temperature and direct sunlight. Keep dry.
Materials to Avoid	Oxidizing agents. Strong acids. Metallic powders. Alkaline metals. Metal halides.
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Exposure Limits	None established
Acute Toxicity	Oral: no data available Inhalation: no data available Dermal: no data available
Chronic Toxicity	No data available.
Skin Corrosion/Irritation	Causes skin irritation.
Serious Eye Damage/Eye Irritation	Causes serious eye irritation.
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
Tetragenicity	No data available
Specific Target Organ Toxicity (Globally Harmonized System)	
Single exposure	No data available
Repeated exposure	No data available
Aspiration Hazard	No data available
Signs and Symptoms of Exposure	No data available
Synergistic Effects	No data available
Additional Information	No data available

12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and Degradability	No data available
Bioaccumulative Potential	No data available

Mobility in Soil	No data available
PBT and vPvB Assessment	No data available
Other Adverse Effects	No data available

13. DISPOSAL CONSIDERATIONS

Product	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licensed professional waste disposal service to dispose of this material. Contact Fluoryx to return unused product.
Contaminated Packaging	Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US)	UN1993 Class 3 Proper shipping name: Flammable Liquid, n.o.s. Packing group II Marine pollutant: No Poison inhalation hazard: No
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Labeling: 3

IMDG	UN1993 Class 3 Proper shipping name: Flammable Liquid, n.o.s. Packing group II EMS-No: F-E, S-E Marine pollutant: No
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Labeling: 3

IATA	UN1993 Class 3 Proper shipping name: Flammable Liquid, n.o.s. Packing group II
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Labeling: 3

15. REGULATORY INFORMATION

OSHA Hazards	Flammable liquid.
TSCA Status	Not listed on US TSCA Inventory. It is for research and development use only.

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

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components

3-Fluoropropan-1-ol. CAS 462-43-1.

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.

Flam. Liq.

Flammable liquids

H225

Highly flammable liquid and vapor.

H315

Causes skin irritation

H319

Causes serious eye irritation

H335

May cause respiratory irritation

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