

Safety Data Sheet

FC13-6500

1H,1H,5H-Octafluoropentyl-1,1,2,2-Tetrafluoroethyl Ether

Revised 20-July-2022

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product number: FC13-6500

Chemical name: 1H,1H,5H-Octafluoropentyl-1,1,2,2-tetrafluoroethyl ether

Synonym: HFE-6512

Company Identification

Distributor: Fluoryx Labs

3650 Research Way, #22 Carson City, NV 89706

USA

Emergency call: +01-813-248-0585 (International)

+1-800-255-3924 (USA)

2. HAZARDS IDENTIFICATION

Emergency Overview:

Classification of the substance or mixture:

Label elements

Irritating to eyes, respiratory system and skin.



Pictogram Signal word

Hazard statement(s)

H316: Causes mild skin irritation

H320: Causes eye irritation

H335: May cause respiratory irritation

Precautionary statement(s) P262: Do not get in eyes, on skin, or on clothing

Hazard symbol(s) Xi, irritant

R-phrase(s) R36: Irritating to eyes

R37: Irritating to respiratory system

R38: Irritating to skin

Other hazard(s)

None

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract

irritation.

Skin May be harmful if absorbed through skin. Causes

skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

3. COMPOSITION AND INFORMATION ON COMPONENTS

C₇H₄F₁₂O

Molecular Weight 332.09 g/mol

Material TSCA Listed CAS # EINECS #

1H,1H,5H-Octafluoropentyl-1,1,2,2-tetrafluoroethyl ether No 16627-71-7 None

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 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.

5. FIRE FIGHTING MEASURES

Flash Point: None

Extinguishing Medias: Carbon dioxide, dry chemical powder, alcohol or

polymer foam. Do not use water as extinguishing

media.

Specific Hazards: Emits toxic fumes under fire conditions including

carbon monoxide, hydrogen fluoride and

fluorophosgene.

Protection of Fire Fighters: Wear self-contained breathing apparatus and

protective clothing to prevent contact with skin and

eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respirator, rubber boots and heavy

rubber gloves. If there is skin contact with the chemical, wash immediately with plenty of water. Absorb on sand or vermiculite and place in closed

containers for disposal.

Environmental Precautions: Do not discharge into drains or rivers. Contain the

spillage.

Cleanup Procedures: Absorb on sand or vermiculite and place in closed

containers for disposal. Scoop up and place in and appropriate container. Ventilate area and wash

spill site after pickup is complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid prolonged exposure. Avoid all direct contact

with material. Wash thoroughly after handling. Do not breathe vapor. Have safely shower and eye wash available. Do not get in eyes, on skin, or on

clothing.

Conditions for Safe Storage: Store in cool, well-ventilated area. Keep container

tightly closed. Keep away from sources of ignition.

Avoid contact with water or humidity.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values: None listed.

Authorized Limit Values: None listed.

Exposure Controls: Follow the protective measures given in Section 7.

Provide premise ventilation.

Respect local, state, and national regulations for

aqueous emissions.

Occupational Exposure Controls:

Ventilation:Use only in a chemical fume hood.

Follow the protective measures given in section 7. Ensure there is sufficient ventilation of the area. Respect local, state and national regulations for

aqueous emissions.

Self-contained breathing apparatus must be

available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety goggles. Ensure eye wash at hand.

Skin protection: Impermeable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear liquid
Color None
Melting Point -93 °C

Boiling Point 133 °C @ 760 mm Hg

Decomposition TemperatureNo dataFlash PointNone

Explosive PropertiesNot determinedVapor Pressure8 mm Hg @ 25.5 °COxidizing PropertiesNot applicable.Density1.626 g/m @ 25 °C

Refractive Index 1.296 @ 20 °C

Solubility In water at 23°C < 20 ppm. Fat: No data.

Ozone Depletion Potential 0 Vapor Density (Air = 1) 4.55

Viscosity 2.2 CP @ 25 °C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and storage

conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Heat/sources of heat.

Materials to Avoid: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: May evolve carbon dioxide, carbon monoxide, and

hydrogen fluoride and fluorophosgene.

Hazardous Polymerization: Will not occur.

Other Information: The vapor is heavier than air and disperses at

ground level and displaces oxygen.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 no data available

Inhalation LC50 > 10 mg/L (2h), static inhalation, rat. No fatalities

up to 10 mg/L for 2 hours.

No data available

No data available

Dermal LD50
Other information on acute toxicity

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo 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 - single exposure

(Globally Harmonized System) Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

(Globally Harmonized System) no data available

Aspiration hazard no data available

FC13-6500 SDS

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract

irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes

skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure To the best of our knowledge, the chemical,

physical, and toxicological properties have not been

thoroughly investigated.

Synergistic effects no data available

Additional Information

RTECS Not available

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity: No data.

Chronic Ecotoxicity: No data.

Degradation

Abiotic:

Air, photolysis: Ozone Depletion Potential: ODP = 0

Reference value for CFC 11: ODP = 1.

Air, greenhouse effect: No data. Reference value for carbon dioxide:

GWP = 1

Biotic: No data.

Potential for bioaccumulation: No data.

13. DISPOSAL CONSIDERATIONS

Waste Treatment: Arrange disposal as special waste, by licensed

disposal company. It is recommended to contact

the producer for recycling recovery.

Packaging Treatment: Arrange for collection by specialized disposal

company.

RCRA Hazardous Waste: Not available

14. TRANSPORT INFORMATION

Shipping Information: Not regulated as a hazardous material by DOT,

IMO, or IATA.

DOT Proper Shipping Name:None. Non-hazardous for transport.

UN Number: None. Non-hazardous for transport.

15. REGULATORY INFORMATION

OSHA Hazards Irritant

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

Acute Health 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

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.

National Regulations (US) TSCA Inventory 8(b):

No.

16. OTHER INFORMATION

HMIS Classification

Health hazard: 1
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 1
Fire: 0
Reactivity Hazard: 0

Legal Disclaimer:

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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determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes.

End of SDS