

Safety Data Sheet

FC13-894Bz

1,1,2,2-Tetrafluoroethyl Benzyl Ether

Revised 11-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 1,1,2,2-Tetrafluoroethyl benzyl ether

Catalog Number FC13-894Bz

Supplier 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 INFORMATION

Emergency Overview

OSHA Hazards Combustible liquid

GHS Classification Flammable liquid (Category 4)

GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H226 Flammable liquid and vapor.

H335 May cause drowsiness or dizziness.

Precautionary statement(s)

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

surfaces – No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P285 In case of inadequate ventilation wear respiratory

retection

protection.

Potential Health Effects Inhalation

No reported cases of intoxication in humans. Risk of moderate consequences experimentally observed or under certain conditions. May cause respiratory tract

irritation.

SkinMay cause skin irritation.EyesMay cause eye irritation.IngestionMay be harmful if swallowed.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms HFE-894Bz;

Benzyl 1,1,2,2-tetrafluoroethyl ether;

[(1,1,2,2-Tetrafluoroethoxy)methyl]benzene

Chemical formula C₈H₈F₄O

C₆H₅OCF₂CF₂H

Components

Material	Molecular Weight	CAS#	EINECS#	TSCA
1,1,2,2-Tetrafluoroethyl benzyl ether r	208.13	115611-57-9	None	Not listed

4 FIRST AIR MEASURES

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.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability Keep away from heat/sparks/open flame/hot

surface. No smoking.

Suitable extinguishing media Carbon dioxide, dry chemical powder, alcohol or

polymer foam, Halons,

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

fighting.

Hazardous combustion products Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

carbonyl fluoride.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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.

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

Do not let product enter drains.

Methods for cleaning 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with the substance. Provide

appropriate exhaust ventilation at places where dust,

mist or vapors are formed. Do not handle in a

confined space.

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: None known.

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

ventilation, and process enclosure if necessary to control exposure. Where risk assessment shows airpurifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (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).

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

FC13-894Bz SDS

Melting Point/Freezing Point No data available **Boiling Point** 176 °C @ 760 mm Hg Flash Point 71 °C, closed cup Ignition Temperature No data available **Auto-ignition Temperature** No data available No data available Lower Explosion Limit Upper Explosion Limit No data available Thermal Decomposition Temperature No data available No data available Vapor Pressure Density 1.27 g/mL @ 25 °C Negligible

Water Solubility

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

> 1 Relative Vapor Density (Air = 1)

Odor Ethereal

Odor Threshold No data available **Evaporation Rate** No data available

1.43 @ 25 °C Refractive index

10. STABILITY AND REACTIVITY

Storage stability Stable under recommended storage conditions.

Possibility of hazardous reactions None known.

Conditions to avoid Heat, flames and sparks. Extremes of temperature

and direct sunlight.

Materials to avoid Oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Exposure limits None established

Oral: no data available **Acute toxicity**

> Inhalation: no data available Dermal: no data available

Chronic toxicity No data available.

No data available. Skin corrosion/irritation 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

Tetragenicity

No data available

Specific target organ toxicity (Globally Harmonized System)

Single exposure
Repeated exposure
No data available
No data available
No data available

Potential Health Effects

Inhalation May cause respiratory tract irritation. May cause

dizziness.

SkinMay cause skin irritation.EyesMay cause eyes irritation.IngestionMay be harmful if swallowed.

Signs and Symptoms of Exposure

No data available

Synergistic Effects

No data available

Additional Information

No data available

12. ECOLOGICAL INFORMATION

Toxicity

Persistence and Degradability

No data available

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

PBT and vPvB Assessment

No data available

Air, Photolysis, ODP = 0. Result: no effect on stratospheric ozone.

Reference value for CFC 11: ODP = 1.

Air, Greenhouse Effect GWP = No data available. Reference value for

carbon dioxide: GWP = 1.

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Product Burn in a chemical incinerator equipped with an

afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. 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) NA1993

Class CBL

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

(1,1,2,2-Tetrafluoroethyl benzyl ether)

Packing group III

Marine pollutant: No

Poison inhalation hazard: No

Labeling: None

IMDGNot dangerous goodsIATANot dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards Combustible liquid.

TSCA Status Not listed on US TSCA Inventory. It is for research

and development use only.

DSL StatusThe substance is not specified on any 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 No components are subject to the Pennsylvania

Right to Know Act.

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

HMIS Classification

Health Hazard: 1
Flammability: 2
Physical hazards: 0

NFPA Rating

Health Hazard: 1
Fire: 2
Reactivity Hazard: 0

Legal Disclaimer:

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