

Safety Data Sheet

FC13-894Ca

3-(1,1,2,2-Tetrafluoroethoxy) Benzaldehyde

Revised 14-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 3-(1,1,2,2-Tetrafluoroethoxy) benzaldehyde

Catalog Number FC13-894Ca

Fluoryx Labs Supplier

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 No known OSHA hazards

GHS Classification Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure

(Category 3)

GHS Label elements, including precautionary statements

Warning

Pictogram Signal word

Hazard statement(s) H315

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

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapors/spray. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

May be harmful if absorbed through skin. May cause Skin

skin irritation.

Eyes May cause eye irritation. **Ingestion** May be harmful if swallowed.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms m-(1,1,2,2-tetrafluoroethoxy)benzaldehyde;

Benzaldehyde, 3-(1,1,2,2-tetrafluoroethoxy)-;

HFE-894Ca;

3-Tetrafluoroethoxybenzaldehyde

Chemical formula $C_9H_6F_4O_2$

m-HC(O)C₆H₄OCF₂CF₂H

Components

Material Molecular Weight CAS # EINECS # TSCA 3-(1,1,2,2-Tetrafluoroethoxy) benzaldehyde 222.14 35295-35-3 252-496-5 Listed

4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to

the doctor in attendance.

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 Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a

physician.

5. FIREFIGHTING MEASURES

chemical or carbon dioxide.

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 and hydrogen

fluoride.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment. Avoid inhalation

of vapor, mist, or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautionsDo not let product enter drains.

Methods for 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

Precautions for Safe HandlingAvoid contact with skin and eyes. Avoid inhalation of

vapor or mist. Normal measures for preventive fire protection. Handle under inert gas. Protect from

moisture. Air sensitive.

Conditions for Safe Storage Keep container tightly closed in a dry and well-

ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent

leakage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection 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 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, 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 Clear liquid
Color Colorless

Safety Data

pH No data available
Melting Point/Freezing Point No data available

Boiling Point 100-102 °C @ 12 mm Hg

Flash Point 102 °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

FC16-894Ca SDS

Vapor Pressure No data available 1.39 g/mL @ 25 °C Density

Water Solubility Reacts

Partition Coefficient (*n*-octanol/water) No data available Relative Vapor Density (Air = 1) No data available Odor No data available Odor Threshold No data available **Evaporation Rate** No data available 1.45 @ 20 °C Refractive index

10. STABILITY AND REACTIVITY

Stable under recommended storage conditions. Storage stability

Possibility of hazardous reactions No data available.

Conditions to avoid Air sensitive.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

carbonyl 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 **Tetragenicity** No data available

Specific target organ toxicity (Globally Harmonized System)

Inhalation - may cause respiratory irritation. Single exposure

Repeated exposure No data available Aspiration Hazard No data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

Skin May be harmful if absorbed through skin. May cause

skin irritation.

EyesMay cause eyes irritation. **Ingestion**May be harmful if swallowed.

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

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

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

DOT (US)Not dangerous goodsIMDGNot dangerous goodsIATANot dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards No known OSHA hazards.

TSCA Status Listed on the TSCA Inventory.

DSL StatusThe substance is specified on the Non-domestic

Substances List (NDSL).

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 No SARA hazards.

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

Right to Know Act.

FC16-894Ca SDS

Pennsylvania Right To Know Components

m-(1,1,2,2-Tetrafluoroethoxy)benzaldehyde

CAS 35295-35-3

New Jersey Right To Know Components

m-(1,1,2,2-Tetrafluoroethoxy)benzaldehyde

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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: 0
Flammability: 1
Physical hazards: 0

NFPA Rating

Health Hazard: 0
Fire: 1
Reactivity Hazard: 0

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