

Safety Data Sheet

FC13-F4DG

2-{2-[2-(2,2-Difluoroethoxy)ethoxy]ethoxy}-1,1-Difluoroethane

Revised 20-Jul-2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name 2-{2-[2-(2,2-difluoroethoxy)ethoxy]-1,1-

difluoroethane

Catalog Number FC13-F4DG

CAS Number None

Supplier Fluoryx Labs

3650 Research Way, #22 Carson City, NV 89706

USA

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

+1-800-255-3924 (USA)

2. HAZARDS INFORMATION

Emergency Overview

OSHA Hazards No known OSHA hazards

GHS Classification Eye irritation, H320: May cause respiratory irritation,

H335

GHS Label elements, including precautionary statements

Pictogram Signal word \diamondsuit

Warning

Hazard statement(s) H320: Causes eye irritation.

H335: May cause respiratory irritation

Precautionary statement(s) P264: Wash hands thoroughly after handling.

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. P337 + P313: If eye irritation persists: Get medical

advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

7. HANDLING AND STORAGE

3. COMPOSITION AND INFORMATION ON INGRI	EDIENTS
Synonyms	2-{2-[2-(2,2-difluoroethoxy)ethoxy]ethoxy}-1,1-difluoroethane
Chemical formula	CF ₂ HCH ₂ OCH ₂ CH ₂ OCH ₂ CH ₂ OCH ₂ CF ₂ H C ₈ H ₁₄ F ₄ O ₃
Molecular weight	234.19 g/mol
CAS number	None
EC number	None
TSCA status	Not listed
Components	
Material	Classification Concentration
2-{2-[2-(2,2-difluoroethoxy)ethoxy]ethoxy}-1,1- difluoroethane	H320, H335 ≤ 100%
4. FIRST AID MEASURES	
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 water.
In case of eye contact	Flush eyes with water for 15 minutes. Consult a physician
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
5. FIREFIGHTING MEASURES	
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment, such as: carbon dioxide, dry chemical powder, water. Do not use water with a full water jet.
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.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Wear personal protective equipment. Avoid contact with the skin and the eyes. Ensure adequate ventilation. Avoid inhalation of vapor, mist, dust, or gas.
Environmental precautions	Do not let product enter drains.
Methods for cleaning up	Mix with sand or vermiculite. Transfer to a closable, labeled salvage container for disposal by an appropriate method

FC13-F4DG

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

vapor or mist. Normal measures for preventive fire

protection.

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

ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection Respiratory protection not required. For nuisance

exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

Hand protection 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 protectionUse 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 General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Liquid

Color Light yellow, clear

Safety Data

pΗ No data available Melting Point/Freezing Point No data available 60 °C @ 1 mm Hg **Boiling Point** Flash Point No data available 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 No data available No data available Water Solubility Partition Coefficient (*n*-octanol/water) No data available

Relative Vapor Density (Air = 1) > 1

FC13-F4DG

Odor None

Odor Threshold

Evaporation Rate

Refractive index

Viscosity

No data available

No data available

No data available

No data available

10. STABILITY AND REACTIVITY

Storage stability Stable under recommended storage conditions.

Possibility of hazardous reactions Polymerization will not occur.

Conditions to avoid Keep away from open flames and heated surfaces

above 300 °C.

Materials to avoid Strong oxidizing agents. Strong acids.

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/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory or skin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified a

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

Specific target organ toxicity (Globally Harmonized System)

Single exposure
Repeated exposure

Aspiration Hazard

No data available
No data available
No data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

FC13-F4DG

SkinMay be irritating.EyesCauses eye 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
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

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product Offer non-recyclable solutions to a licensed disposal

company. Contact Fluoryx Labs 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.

DSL StatusThis product does not contain components listed on

the Canadian NDSL 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 No SARA hazards.

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

Right to Know Act.

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.

16. OTHER INFORMATION

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 MSDS