

Safety Data Sheet

FC21-08

3-(Perfluorooctyl)propyl Epoxide

Revised 16-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 3-(Perfluorooctyl)propyl epoxide

Catalog NumberFC21-08BrandFluoryx LabsCAS no.38565-53-6

Relevant identified uses of the Substance or mixture and uses advised against

Identified uses: Laboratory chemicals; manufacture of substances

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)

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 Not a dangerous substance according to GHS.

GHS Label elements, including precautionary statements

Pictogram None Signal word None

Hazard statement(s)

None

Precautionary statement(s)

None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadeca-fluorononyl)oxirane;

(Perfluoro-*n*-octyl)propenoxide; Perfluorooctyl-1,2-epoxypropane;

Oxirane, (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononyl); (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Heptadecafluorononyl) oxirane;

1,2-Epoxy-4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-heptadecafluoroundecane;

3-(2-Perfluoro-*n*-octyl)-1,2-epoxypropane;

3-(Perfluorooctyl)-1,2-propenoxide; 3-(Perfluorooctyl)propylene oxide; 3-Perfluorooctyl-1,2-epoxypropane; DAIKIN E-1830TM

Chemical formula

 $C_{11}H_5F_{17}O$

 $CF_3CF_2CF_2CF_2CF_2CF_2CF_2CH_2CH(O)CH_2$

Components

Material	Molecular Weight	CAS#	EC#	TSCA	
3-(Perfluorooctyl)propyl epoxide	476.13	38565-53-6	254-006-5	Not listed	
4. FIRST AID MEASURES					
inhaled		If breathed in, move person into fresh air. If not breathing, give artificial respiration.			
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		Never give anything by mouth to an unconscious person. Rinse mouth with water.			
5. FIREFIGHTING MEASURES					
Suitable extinguishing media		Use water spray, alcohol-resistant foam, dry 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, hydrogen fluoride, carbonyl fluoride.			
6. ACCIDENTAL RELEASE MEAS	URES				
Personal precautions		Avoid inhalation of vapor, mist, dust, or gas.			
Environmental precautions	prod		age or spillage. Do . Discharge into th		
Methods for cleaning up	labe	Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.			
7. HANDLING AND STORAGE					
Precautions for Safe Handling		Normal measures for preventive fire protection.			
Conditions for Safe Storage		Keep container tightly closed in a dry and wellventilated place.			

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of vapors are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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 protectionChoose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. 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 12 °C

Boiling Point 176 °C @ 760 mm Hg Flash Point > 102 °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 Vapor Pressure No data available

Density 1.72 g/mL @ 20 °C

Water Solubility Negligible

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

Relative Vapor Density (Air = 1) > 1

Odor No data available
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 Polymerization will not occur. Reacts

exothermically with amines.

FC21-08 SDS

Carcinogenicity

Conditions to avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F).

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 No data available. Skin corrosion/irritation No data available. Serious eye damage/eye irritation No data available. Respiratory or skin sensitization No data available. No data available.

Germ cell mutagenicity

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

Specific target organ toxicity (Globally Harmonized System)

Single exposure No data available 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.

Eves May cause eyes irritation. May be harmful if swallowed. Ingestion

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 No data available

Persistence and Degradability Does not readily degrade.

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 surplus and 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 goods	
IMDG	Not dangerous goods	
IATA	Not dangerous goods	
15. REGULATORY INFORMATION		
OSHA Hazards	No known OSHA hazards	
TSCA Status	On the inventory or in compliance with the inventory.	
DSL Status	Not listed	
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.	
Pennsylvania Right To Know Components	(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Heptadecafluoro- nonyl)oxirane CAS-No. 38565-53-6	
New Jersey Right To Know Components	(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-Heptadecafluoro- nonyl)oxirane CAS-No. 38565-53-6	
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: Flammability: Physical hazards:	0 0 0	
NFPA Rating Health Hazard: Fire: Reactivity Hazard:	0 0 0	
Further information:	Not for drug, household, or other uses. The	
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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