

Safety Data Sheet

FC18-08

2-(Perfluorooctyl)ethyl Thiol

Revised 21-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product name 2-(Perfluorooctyl)ethyl thiol

Catalog number FC18-08
Brand Fluoryx Labs
CAS number 34143-74-3

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

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USA

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2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2A), H315 Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), respiratory system, H335

GHS Label Elements, Including Precautionary Statements

Pictogram GHS07: Exclamation mark



Signal Word Warning; Stench

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/ vapours/ spray.
P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

FC18-08 SDS

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. P337 + P313 P362 Take off contaminated clothing and wash before reuse. P403 + P233

Store in a well-ventilated place. Keep container tightly

closed.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste

disposal plant.

3. COMPOSITION AND INFORMATION ON COMPONENTS

Synonyms 1*H*,1*H*,2*H*,2*H*-Perfluorodecanethiol;

3,3,4,4,5,5,6,6,7,8,8,9,9,10,10,10-Heptadecafluoro-1-decanethiol;

1*H*,1*H*,2*H*,2*H*-Perfluoro-1-decanethiol; 1*H*,1*H*,2*H*,2*H*-Perfluorodecane mercaptan

Formula C₁₀H₅F₁₇S

CF₃CF₂CF₂CF₂CF₂CF₂CF₂CH₂CH₂SH

Classification Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335

Molecular Weight 480.18 g/mol **CAS Number** 34143-74-3

EC Number None

Hazardous Components

Component	Classification	Concentration
2-(Perfluorooctyl)ethyl thiol	Skin Irrit. 2A; Eye Irrit. 2A; STOT SE 3; H315;	≤100%
	H319; H335	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of 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 Remove victim to fresh air and keep at rest in a position

comfortable for breathing. 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 cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. Consult a doctor.

If swallowed Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indications of Any Immediate Medical Attention

No data available.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide

Special Hazards Arising from the Substance Hazardous decomposition products formed under fire

conditions - carbon oxides, hydrogen fluoride.

Special Protective Equipment for Firefighters Wear self contained breathing apparatus for fire fighting.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Avoid breathing

vapors, 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 Handling Avoid contact with skin and eyes. Avoid inhalation of

vapor or mist. Normal measures for preventive fire

protection.

For precautions see section 2.2.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated

place. Containers which are opened must be carefully

resealed and kept upright to prevent leakage.

Handle and store under inert gas. Air sensitive.

Specific end use(s) Apart from the uses mentioned in section 1.2 no other

specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters Contains no substances with occupational exposure

limit values.

Appropriate Engineering Controls Handle in accordance with good industrial hygiene and

safety practice. Wash hands before breaks and at the

end of workday.

Personal Protective Equipment

Eye/face 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 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.

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.

Respiratory protection Where risk assessment shows air-purifying respirators

are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (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).

Control of environmental exposureDo not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Clear liquid
Color Colorless

Safety Data

pH No data available

Melting point/freezing point 22 °C

Boiling point 191°C @ 760 mm Hg > 110 °C (closed cup) Flash point No data available Ignition temperature No data available Auto-ignition temperature No data available Lower explosion limit Upper explosion limit No data available Thermal decomposition temperature No data available Vapor pressure No data available Density 1.68 g/mL @ 25 °C

Water solubility Insoluble

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

Relative vapor density (air = 1) > 1

Odor Stench; strong mercaptan/thiol odor

Odor threshold Very low

Evaporation rate No data available Oxidizing properties No data available

10. STABILITY AND REACTIVITY

Reactivity Slowly oxidizes in the presence of oxygen to produce

disulfides.

Chemical Stability Stable in sealed containers under dry, inert atmosphere.

Possibility of Hazardous Reactions: No data available. Store under inert (dry) atmosphere.

Conditions to Avoid Exposure to oxygen.

Incompatible Materials Avoid strong oxidizing agents, water, alcohols, and

strong acids.

Hazardous Decomposition Products In combustion, emits toxic fumes including carbon

oxides, sulfur oxides, and hydrogen 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 Not corrosive

Serious Eye Damage/Eye IrritationNo data available.Respiratory 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 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 ToxicityNo data availableTeratogenicityNo data available

Specific Target Organ Toxicity (Globally Harmonized System)
Single exposure

No data available

Repeated exposure

No data available

Aspiration Hazard

No data available

Synergistic Effects

No data available

Additional Information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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 PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

Other Adverse Effects No data available

13. DISPOSAL CONSIDERATIONS

Product Offer non-recyclable solutions to a licensed disposal

company or contact Fluoryx to return unused product.

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

15. REGULATORY INFORMATION

TSCA Inventory Not listed.

DSL Status Not on the Canadian DSL list.

SARA 302 Components SARA 302: No chemicals in this material are subject to

the reporting requirements of SARA Title III, Section

302.

SARA 313 Components SARA 313: 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 1H,1H,2H,2H-Perfluorodecanethiol

CAS-No. 34143-74-3

New Jersey Right to Know Components 1H,1H,2H,2H-Perfluorodecanethiol

CAS-No. 34143-74-3

California Prop. 65 Components

This product does not contain any chemicals known to

State of California to cause cancer, birth, or any other

reproductive defects.

16. OTHER INFORMATION

Full Text of H-Statements Referred to Under Sections 2 and 3.

Eye Irrit. Eye irritation.

H315 Causes skin irritation.

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

Skin Irrit. Skin irritation.

STOT SE Specific target organ toxicity - single exposure.

HMIS Rating

Health hazard 1
Flammability 0
Physical hazards 0

NFPA Rating

Health hazard 1
Fire 0
Reactivity hazard 0

Further Information For industrial 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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End of SDS