

Safety Data Sheet

FC01-10

Perfluorodecyl lodide

Revised 21-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product name Perfluorodecyl iodide

Catalog number FC01-10
Brand Fluoryx Labs
CAS number 423-62-1

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses Laboratory chemicals. Synthesis of substances.

Details of the Supplier of the Safety Data Sheet

Company Fluoryx Labs

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USA

+1 (510) 329-9149 (Telephone) +1 (510) 686-8799 (Fax)

www.fluoryx.com

Emergency Call (ChemTel) +01-813-248-0585 (International)

+1-800-255-3924 (USA)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

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

Skin irritation (Category 2), 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

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.

P264 Wash skin thoroughly after handling.

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P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection/face

protection.

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.

P337 + P313 If eve irritation persists: Get medical advice/

attention.

Take off contaminated clothing and wash before P362

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.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS - none

3. COMPOSITION AND INFORMATION ON COMPONENTS

Perfluorodecyl iodide: **Synonyms**

1-lodoperfluorodecane;

1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-Henicosafluoro-10-iododecane; Decane, 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heneicosafluoro-10-iodo-;

lodohenicosafluorodecane; Henicosafluoro-1-iododecane

Formula

C₁₀F₂₁I

Molecular Weight 645.98 g/mol

CAS Number 423-62-1 **EC Number** 207-030-5

Hazardous Components

Component	Classification	Concentration
Perfluorodecyl iodide	Skin Irrit. 2; 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,

hydrogen iodide.

Advice 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 Precautions Do not let product enter drains.

Methods for Cleaning Up Pick up and arrange disposal without creating dust.

Sweep up and shovel. Keep in suitable, closed

containers for disposal.

7. HANDLING AND STORAGE

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

mist or respirable particles. Provide appropriate exhaust ventilation at places where mist or vapors are formed. Normal measures for preventive fire protection. Keep away from open flames and heated

surfaces above 200 °C (392 °F).

Conditions for Safe Storage Store in cool place protected from light. 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.

Specific End Use(s)

Apart from the uses mentioned in section 1.2, no

other specific uses are stipulated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with Workplace Control Parameters Contains no substances with occupational exposure

limit values.

Engineering Controls Keep container tightly closed. Use only with

adequate ventilation. Do not aerosolize or spray. Prevent leaks in high-pressure systems that could

create fine mists.

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.

Full contact

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698,

Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich

Z677442, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test

method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific

use scenario.

Body protectionImpervious 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 For nuisance exposures use type P95 (US) or type

P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH

(US) or CEN (EU).

Control of Environmental Exposure Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Crystalline wax/powder Color White to light pink

Safety Data

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pH Slightly acidic
Melting point/freezing point 66-70 °C

Boiling point 195-200 °C at 760 mm Hg
Flash point > 100 °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 > 200 °C

Vapor pressure No data available

Density 1.94 g/cm³ @ 70 °C

Water solubility Negligible

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

Relative vapor density (air = 1) > 1

Odor Slight, acidic, waxy
Odor threshold No data available
Evaporation rate No data available
Viscosity No data available
Oxidizing properties No data available

10. STABILITY AND REACTIVITY

Reactivity No data available

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 light and oxygen. Keep away from open

flames and heated surfaces above 200 °C (392 °F).

Incompatible Materials Avoid strong oxidizing agents, aluminum.

Hazardous Decomposition Products Decomposition temperature > 200 °C. Hazardous

decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, hydrogen iodide.

Decomposes when exposed to UV light.

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 LD50 intravenous – mouse – 11,100 mg/kg

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 as probable, possible or confirmed human carcinogen

Aspiration Hazard

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)

Inhalation - may cause respiratory irritation Single exposure

Repeated exposure No data available

Signs and Symptoms of Exposure (Human Experience)

Inhalation: Lungs: cough, shortness of breath. Symptoms

may be delayed.

No data available

Skin contact: Irritation, discomfort, rash.

Excessive lachrymation, blurred vision, discomfort, Eye contact:

irritation.

Ingestion: Nausea, weakness, and disturbance.

Synergistic Effects No data available

Additional Information RETECS number HD8710000

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 Not readily biodegradable

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. TRANSPORTATION INFORMATION

DOT (US) Not dangerous goods **IMDG** Not dangerous goods IATA Not dangerous goods

15. REGULATORY INFORMATION

TSCA StatusOn the inventory or in compliance with the inventory.

DSL StatusNot on the Canadian DSL 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 Acute health hazard

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

Right to Know Act.

Pennsylvania Right to Know Components Perfluorodecyl iodide

CAS-No. 423-62-1 Revision Date

New Jersey Right to Know Components Perfluorodecyl iodide

CAS-No. 423-62-1 Revision Date

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

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

Eve Irrit. Eve 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 R&D 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