

# Safety Data Sheet

# FC01-04di

# 1,4-Diiodoperfluorobutane

Revised 26-November-2022

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product name 1,4-Diiodoperfluorobutane

FC01-04di Catalog number **Brand** Fluoryx Labs CAS number 375-50-8

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

Laboratory chemicals. Synthesis of substances. Identified uses

**Details of the Supplier of the Safety Data Sheet** 

Company Fluoryx Labs

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+1 (510) 329-9149 (Telephone)

www.fluoryx.com

**Emergency Call (VelocityEHS)** +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, H315 Serious eye irritation, H319

May cause respiratory irritation, 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.

Wash skin thoroughly after handling. P264

P271 Use only outdoors or in a well-ventilated area. FC01-04di SDS

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 eye irritation persists: Get medical advice/

attention.

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.

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

#### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Synonyms** 1,4-Diiodooctafluorobutane

1,4-Diiodoperfluorobutane Octafluoro-1,4-diiodobutane Perfluoro-1,4-diiodobutane

1,1,2,2,3,3,4,4-Octafluoro-1,4-diiodobutane 1,4-Diiodoperfluorobutane~Octafluoro-1,4-

diiodobutane

Octafluorotetramethylene diiodide

Formula C<sub>4</sub>F<sub>8</sub>I<sub>2</sub>

ICF2CF2CF2CF2I

Molecular Weight453.84 g/molCAS Number375-50-8EC Number206-788-4

**Hazardous Components** 

Component	Classification	Concentration
1,4-Diiodoperfluorobutane	Skin Irrit.; Eye Irrit.; H315, H319	≤100%

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.

3 1 1 1 1

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.

No data available.	
5. FIREFIGHTING 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	Soak up with inert absorbent material. 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

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

# **Components with Workplace Control Parameters**

Contains no substances with occupational exposure limit values.

other specific uses are stipulated.

**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 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 Liquid, clear
Color Pink to dark red

#### **Safety Data**

pH No data available

Melting point/freezing point -9 °C

Boiling point 150 °C at 760 mm Hg
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 > 200 °C

Vapor pressure

Density

2.474 @ 25 °C

Water solubility

No data available

2.474 @ 25 °C

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
Viscosity No data available
Oxidizing properties No data available

### **10. STABILITY AND REACTIVITY**

Reactivity No data available

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Chemical Stability Stable in sealed containers under dark, 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**

Acute toxicity estimate Oral - 2,500 mg/kg

(Calculation method) LD50 Oral - 2,500 mg/kg Oral: No data available Inhalation: No data available Dermal: No data available

Skin Corrosion/Irritation Skin irritant

Serious Eye Damage/Eye Irritation Eye irritation

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

Specific Target Organ Toxicity (Globally Harmonized System)

Single exposure Inhalation – may cause respiratory irritation

Repeated exposure No data available
Aspiration Hazard No data available

Signs and Symptoms of Exposure No data available

May cause skin irritation with discomfort or rash.

May cause eye irritation with discomfort, tearing or

blurring of vision.

Synergistic Effects No data available

Additional Information No data available

12. ECOLOGICAL INFORMATION		
Toxicity	No data available	
Persistence and Degradability	Not readily biodegradable	

Bioaccumulative PotentialNo data availableMobility in SoilNo 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)IMDGIATANot dangerous goodsIATANot dangerous goods

15. REGULATORY INFORMATION

TSCA Inventory 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 Acute health hazard

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

Right to Know Act.

**Pennsylvania Right To Know Components** 1,1,2,2,3,3,4,4-Octafluoro-1,4-diiodobutane

CAS-No. 375-50-8

New Jersey Right To Know Components 1,1,2,2,3,3,4,4-Octafluoro-1,4-diiodobutane

CAS-No. 375-50-8

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.

Eye Irrit. Eye irritation.

H315 Causes skin irritation.

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

Skin Irrit. Skin irritation.

**HMIS Rating** 

#### FC01-04di SDS

Health hazard 2
Flammability 0
Physical hazards 0

NFPA Rating

Health hazard 2
Fire 0
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