

Safety Data Sheet

FC03-02

2-(Perfluoroethyl)ethyl lodide

Revised 06-February-2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product name 2-(Perfluoroethyl)ethyl iodide

Catalog number FC03-02
Brand Fluoryx Labs
CAS number 40723-80-6

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

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USA

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

+1-800-255-3924 (USA)

2. HAZARDS INFORMATION

Emergency Overview

Classification of the Substance or Mixture

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

Acute toxicity, Oral (Category 3), H301 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412

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

GHS Label elements, including precautionary statements

Pictogram

Danger

Signal word

Hazard statement(s)

H301 H319 Toxic if swallowed.
Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.
P280 Wear eve protection/ face protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician. Rinse mouth.

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.

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*H*,1*H*,2*H*,2*H*-Perfluorobutyl iodide;

1,1,1,2,2-Pentafluoro-4-iodobutane; 4-lodo-1,1,2,2-pentafluorobutane; Butane, 1,1,1,2,2-pentafluoro-4-iodo-

Formula $C_4H_4F_5I$

CF₃CF₂CH₂CH₂I

 Molecular Weight
 273.97 g/mol

 CAS Number
 40723-80-6

 EC Number
 255-055-5

Hazardous Components

Component	Classification	Concentration
2-(Perfluoroethyl)ethyl iodide	Acute Tox. 3; Eye Irrit. 2A; Aquatic Acute 3;	≤100%
	Aquatic Chronic 3; H301, H319, H412	

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

4. 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 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 plenty of water. Take victim

immediately to hospital. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15

minutes and consult a physician.

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

Indication of any immediate medical attention	and special treatment needed - No data available
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, hydrogen iodide.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Wear respiratory protection. Avoid inhalation of vapor, mist, or gas. Ensure adequate ventilation. Vapors can accumulate in low areas. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up	Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers and dispose of as hazardous waste.
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.
Conditions for Safe Storage	Store in cool, dry, well-ventilated place protected from light. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
	Light sensitive.
	Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects
8. EXPOSURE CONTROLS AND PERSONAL PR	ROTECTION
Contains no substances with occupational exp	oosure limit values.
Appropriate engineering controls	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Personal protective equipment	
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (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).

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 protection Face shield and 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 protectionComplete suit protecting against chemicals. The

type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures Avoid contact with skin, eyes, and clothing. 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, turns pink on exposure to light

Safety Data

pH No data available
Melting Point/Freezing Point No data available

Boiling Point 98 – 101 °C at 760 mm Hg

Flash Point > 98 °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 No data available Vapor Pressure No data available Density 1.936 g/mL @ 20 °C

Water Solubility

Partition Coefficient (*n*-octanol/water)

Negligible

Log Pow: 2.553

Relative Vapor Density (Air = 1) > 1

Odor No data available
Odor Threshold No data available
Evaporation Rate No data available
Oxidizing Properties No data available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions No data available

Conditions to Avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F). Sensitive to light and

oxygen.

Incompatible Materials Strong oxidizing agents. Strong bases. Aluminum,

potassium, magnesium. Sodium/sodium oxides.

Hazardous Decomposition Products

Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride, hydrogen iodide. Decomposes when exposed to

UV light.

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.

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
Repeated exposure
No data available.
No data available.
No data available
No data available
No data available
RTECS: not available

12. ECOLOGICAL INFORMATION

Toxicity

No data available

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

An environmental hazard cannot be excluded in the

event of unprofessional handling or disposal.
Harmful to aquatic life - no data available.

	13. DI	ISPOSAL	CONSID	ERATIONS
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Product Contact a licensed professional waste disposal

service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer unused surplus to Fluoryx. Prevent wastewater, spent solvent, and materials containing or contaminated with solvent from

entering waterways. Wastewater should be sent to a

wastewater treatment facility.

Contaminated packaging Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US) UN number: 2810

Class: 6.1

Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s.

(1,1,1,2,2-Pentafluoro-4-iodobutane)

Poison Inhalation Hazard: No

IMDG UN number: 2810

Class: 6.1

Packing group: III EMS-No: F-A, S-A

Proper shipping name: TOXIC, LIQUIDS, ORGANIC, N.O.S. (1,1,1,2,2-Pentafluoro-4-

iodobutane)

IATA UN number: 2810

Class: 6.1

Packing group: III

Proper shipping name: Toxic, liquids, organic, n.o.s.

(1,1,1,2,2-Pentafluoro-4-iodobutane)

15. REGULATORY INFORMATION

OSHA Hazards Toxic by ingestion, Irritant

TSCA StatusOn the inventory or in compliance with the inventory.

DSL StatusThis product contains the following components

listed on the Canadian NDSL list: Butane, 1,1,1,2,2-pentafluoro-4-iodo-

CAS-No. 40723-80-6

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

1,1,1,2,2-Pentafluoro-4-iodobutane

CAS-No. 40723-80-6

New Jersey Right To Know Components

1,1,1,2,2-Pentafluoro-4-iodobutane

CAS-No. 40723-80-6

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.

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16. OTHER INFORMATION

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

Acute Tox. Acute toxicity

Aquatic Acute Acute aquatic toxicity
Aquatic Chronic Chronic aquatic toxicity

Eye Irrit. Eye irritation
H301 Toxic if swallowed.

H319 Causes serious eye irritation.

HMIS Classification

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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