

Safety Data Sheet

FC03-04

2-(Perfluorobutyl)ethyl lodide

Revised 18-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Identifier Product Name Catalog Number Brand CAS Number	2-(Perfluorobutyl)ethyl iodide FC03-04 Fluoryx Labs 2043-55-2
Relevant identified uses of the Substance or mix Identified uses:	ture and uses advised against 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) www.fluoryx.com
Emergency call:	+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 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram



Signal word Hazard statement(s) H315 H319 H335 Precautionary statement(s) P261

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapors/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.
P302 + P352	F 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.
P321	Specific treatment (see supplemental first aid instructions on this label).
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 INFORMAT	ION ON COMPONENTS
Synonyms	Perfluorobutyl ethyl iodide; <i>1H,1H,2H,2H</i> - Nonafluorohexyl-1-iodide; 1,1,1,2,2,3,3,4,4-Nonafluoro-6-iodohexane
Chemical formula:	ICH ₂ CH ₂ (CF ₂ CF ₂) ₂ F C ₆ H ₄ F ₉ I
Molecular weight	373.99 g/mol
CAS number	2043-55-2
EC number	218-055-6
Hazardous components	

Material	Classification	Concentration
2-(Perfluorobutyl)ethyl iodide	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	≤100%

4. FIRST AID MEASURES	
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
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. Consult a physician.
In case of eye contact	Flush eyes with water as a precaution. Consult a physician.
If swallowed	Never give anything by mouth to an unconscious

	person. Rinse mouth with water. Consult a physician.
5. FIRE FIGHTING 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 if necessary.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions carbon oxides, hydrogen fluoride, hydrogen iodide.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Vapors can accumulate in low areas. Evacuate personnel to safe areas.
Environmental precautions	Do not let product enter drains. Discharge into the environment must be avoided.
Containment and 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.
Conditions for safe storage	Keep container tightly closed in a dry and well- ventilated place. Containers which are opened must be purged with an inert gas, carefully resealed, and kept upright to prevent leakage. Protect from light. Do not store in contact with aluminum.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
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	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 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.
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	Clear liquid
Color	Light pink; turns red on exposure to light
Safety Data	
рН	Acidic
Melting Point/Freezing Point	-14 °C
Boiling Point	139 °C @ 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	No data available
Vapor Pressure	No data available
Density	1.94 g/mL @ 25 °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
Viscosity	No data available

10. STABILITY AND REACTIVITY	
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Materials to avoid	Strong acids and bases.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, hydrogen iodide. Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Acute toxicity	
Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50 Other information on acute toxicity	No data available No data available
Skin corrosion/irritation	No data available
	No data available
Serious eye damage/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
Teratogenicity	No data available
Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.	(Globally Harmonized System)
Specific target organ toxicity - repeated exposu No data available	re (Globally Harmonized System)
Aspiration hazard	No data available
Signs and Symptoms of Exposure:	No data available
Synergistic effects	No data available
Additional Information	
RTECS:	Not available
To the best of our knowledge, the chemical, physica thoroughly investigated.	al, and toxicological properties have not been
12. ECOLOGICAL EFFECT	
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

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Hazard
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,4,4-Nonafluoro-6-iodohexane 13-55-2
,4,4-Nonafluoro-6-iodohexane 13-55-2
does not contain any chemicals known
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16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.	
Eye Irrit. H315 H319 H335	Eye irritation Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Skin Irrit. STOT SE	Skin irritation Specific target organ toxicity - single exposure
HMIS Rating:	Health: 2 Flammability:0 Reactivity: 0
NFPA Rating:	Health: 2 Flammability:0 Reactivity: 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, Page 6 of 7

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