

Safety Data Sheet

FC15-08

2-(Perfluorooctyl)ethyl Bromide

Revised 18-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 2-(Perfluorooctyl)ethyl bromide

Catalog Number FC15-08
Brand Fluoryx Labs
CAS Number 21652-57-3

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

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 INFORMATION

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

Warning

Causes skin irritation.
Causes serious eye irritation.

May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapors/spray.

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P264 Wash skin thoroughly after handling.

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

rotection.

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.

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 INFORMATION ON INGREDIENTS

Synonyms *1H,1H,2H,2H-*Perfluorodecyl bromide;

Heptadecafluorodecyl bromide;

1-Bromo-1H,1H,2H,2H-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecane;

1-Bromo-3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecane;

3,3,4,4,5,5,6,6,7,7,8,8,8-Heptadecafluorodecyl bromide;

 $\hbox{6-Bromo-1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadeca fluoro decane}$

Chemical formula C₁₀H₄BrF₁₇

CF₃CF₂CF₂CF₂CF₂CF₂CF₂CH₂CH₂Br

Molecular Weight527.02 g/moleCAS Number21652-57-3

EC Number None

Hazardous components

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

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. 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 bromide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid inhalation

of vapor, mist, dust, or gas. Ensure adequate ventilation. Vapors can accumulate in low areas.

Evacuate personnel to safe areas.

Environmental precautionsDo not let product enter drains. Discharge into the

environment must be avoided.

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.

Conditions for Safe Storage Keep container tightly closed in a dry and well-

ventilated place.

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).

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.

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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 Solid below 26 °C

Color White

Safety Data

pH No data available

Melting Point/Freezing Point 26 °C

Boiling Point 192 °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 1.76 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

Storage stability Stable under recommended storage conditions.

Possibility of hazardous reactions Polymerization will not occur.

Conditions to avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F). Protect from light.

Materials to avoid Strong oxidizing agents.

Hazardous decomposition products Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride,

hydrogen bromide, carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

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Acute toxicity

Oral LD50
Inhalation LC50
Dermal LD50
Other information on acute toxicity

No data available
No data available
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

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 Eye - causes eye irritation.

Repeated exposure No data available
Aspiration Hazard No data available

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory

tract irritation.

Skin May be harmful if absorbed through skin. May cause

skin irritation.

EyesCauses eyes irritation.
Ingestion
May be harmful if swallowed.

Signs and Symptoms of Exposure

No data available

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 PotentialNo data availableMobility in SoilNo data availablePBT and vPvB AssessmentNo data availableOther adverse effectsNo data available

13. DISPOSAL CONSIDERATIONS **Product** Offer non-recyclable solutions to a licensed disposal company. 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 Status** Not listed on the inventory. **DSL Status** This product does not contain components listed on the Canadian NDSL 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 No SARA hazards. **Massachusetts Right To Know Components** No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components No components are subject to the Pennsylvania Right to Know Act. **New Jersey Right To Know Components** No components are subject to the New Jersey Right to Know Act. 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 Classification** Health Hazard: Flammability: 0 Physical hazards: 0 **NFPA Rating** Health Hazard: 1 0 0 Reactivity Hazard: **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