

Safety Data Sheet

FC14-12

Perflurododecyl Bromide

Revised 03-March-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Perfluorododecyl bromide

Catalog Number FC14-12
Brand Fluoryx Labs
CAS Number 67193-90-2

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 (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

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)



Warning

Causes skin irritation.
Causes serious eye irritation.

May cause respiratory irritation.

P261 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 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 COMPONENTS

Synonyms: 1-Bromopentacosafluorododecane;

1-Bromo-1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,12-pentacosafluorododecane;

Pentacosafluorododecyl bromide

 $C_{12}BrF_{25} \\$

Molecular Weight 698.99 g/mole CAS Number 67193-90-2

EC Number None

Hazardous components

Component	Classification	Concentration
Perfluorododecyl bromide	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	≤100%

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. Consult a

physician.

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

minutes and consult a physician.

If swallowedDo NOT induce vomiting. Never give anything by

mouth to an unconscious person. Rinse mouth with

water. Consult a physician.

5. FIRE FIGHTING MEASURES

Flash Point: None

Firefighting Protective Equipment: Wear self-contained

breathing apparatus and protective clothing to

prevent contact with skin and eyes.

Specific Hazard(s): Emits toxic fumes under fire conditions.

Suitable Extinguishing Medium: Water spray, alcohol-resistant foam, carbon dioxide,

or dry chemical powder.

Hazardous Products of

Combustion May Include: Carbon monoxide, carbon dioxide, hydrogen fluoride

(hydrofluoric acid), hydrogen bromide (hydrobromic

acid).

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: Take precautions to ensure product does not

contaminate the ground or enter the drainage

system.

Spill Clean-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 formation of respirable particles. Do not

breathe vapors or spray mist. Wash thoroughly after handling. Have safely shower and eye wash available. Do not get in eyes, on skin, or on

clothing.

Conditions for Safe Storage: Store in cool, dry, well-ventilated area. Keep

container tightly closed. Keep away from sources

of ignition.

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: Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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.

Hand: Compatible chemical-resistant gloves.

Eye: Safety glasses with side-shields conforming to

EN166.

Skin and body protection: Choose body protection according to the amount and

concentration of the dangerous substance at the work

place.

Hygiene measures Handle in accordance with good industrial hygiene

and safety practice. Wash hands before breaks and

at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Form Solid Color White

SAFETY DATA

Boiling Point 108 °C at 20 mm Hg

Melting Point 89 - 93 °C

pH No data available

Odor None

Odor threshold

Flash Point

Evaporation rate

Vapor pressure

No data available

No data available

No data available

No data available

Vapor density >1 (air = 1)
Ignition temperature No data available
Lower explosion limit No data available
Upper explosion limit No data available
Density 1.86 g/mL @ 25 °C

Oxidizing properties No data available

Solubility in Water Negligible

Viscosity No data available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and storage

conditions.

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Heat/sources of heat. Light.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: May evolve carbon dioxide, carbon monoxide, and

hydrogen fluoride and hydrogen bromide.

Hazardous Polymerization: Will not occur.

Other Information: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 No data available Inhalation LC50 No data available

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Dermal LD50
Other information on acute toxicity
No data available
No data available
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

Teratogenicity

No data available

Specific target organ toxicity - single exposure

(Globally Harmonized System) Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

(Globally Harmonized System) No data available

Aspiration hazard No data available

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract

irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes

skin irritation.

Eyes Causes eye irritation.

Synergistic effects 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 available

Other adverse effects	No 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. TRANSPORT INFORMATION	
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
15. REGULATORY INFORMATION	
TSCA Status	Not listed on the inventory
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	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 Eye Irrit. Eye 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	
HMIS Classification Health Hazard: Flammability: Physical Hazards:	1 0 0
NFPA Rating Health Hazard: Fire: Reactivity Hazard:	1 0 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