

FC08-18***n*-Perfluorooctane**

Revised 16-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION**Product Identifier**

Product Name	<i>n</i> -Perfluorooctane
Catalog Number	FC08-18
Brand	Fluoryx Labs
CAS no.	307-34-6

Relevant identified uses of the Substance or mixture and uses advised against

Identified uses:	Laboratory chemicals; manufacture of substances
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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)

Emergency call:

+01-813-248-0585 (International)
 +1-800-255-3924 (USA)

2. HAZARDS INFORMATION**Emergency Overview**

OSHA Hazards	No known OSHA hazards
GHS Classification	Not a dangerous substance according to GHS
GHS Label elements, including precautionary statements	
Pictogram	None
Signal word	None
Hazard statement(s)	None
Precautionary statement(s)	None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Synonyms

Perfluorooctane;
 Perfluorinated-*n*-octane;
 Octadecafluorooctane;
 1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Octadecafluorohexane;
 PFO;
 Fluorinert PF5080®;
 FC3280®;
 FC-7118mc-6

Chemical formula

$n\text{-C}_8\text{F}_{18}$
 $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_3$

Components

Material	Molecular Weight	CAS #	EC #	TSCA
<i>n</i> -Perfluorooctane	438.06	307-34-6	206-199-2	Listed

4. FIRST AID MEASURES

If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash off with soap and plenty of water.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.

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.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid inhalation of vapor, mist, dust, or gas.
Environmental precautions	Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up	Soak up with inert absorbent material for disposal. 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.

Personal protective equipment**Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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	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	General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Clear liquid
Color	Colorless

Safety Data

pH	No data available
Melting Point/Freezing Point	-15 °C
Boiling Point	102 °C @ 760 mm Hg
Flash Point	> 102 °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	28.05 mm @ 0 °C
Density	1.76 g/mL @ 25 °C
Viscosity	1.93 cP @ 25 °C
Water Solubility	3.8 x 10 ⁻⁹ moles/liter at 25 °C
Partition Coefficient (<i>n</i> -octanol/water)	No data available
Relative Vapor Density (Air = 1)	> 1
Odor	None
Odor Threshold	No data available
Evaporation Rate	No data available

10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Polymerization will not occur. No data available.
Conditions to avoid	Keep away from open flames and heated surfaces above 200 °C (392 °F).
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Hazardous decomposition products formed under

fire conditions - carbon oxides, hydrogen fluoride, carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other information on 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	No data available
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.
Eyes	May cause eyes irritation.
Ingestion	May be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic Effects

No data available

Additional Information

RTECS: RG9701000

12. ECOLOGICAL INFORMATION

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

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

OSHA Hazards	No known OSHA hazards.
TSCA Status	Listed.
DSL Status	This product contains the following components listed on the Canadian NDSL list: Octane, octadecafluoro- CAS-No. 307-34-6
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	No SARA hazards.
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	Perfluorooctane; CAS-No. 307-34-6
New Jersey Right To Know Components	Perfluorooctane; CAS-No. 307-34-6
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.

16. OTHER INFORMATION

HMIS Classification	
Health Hazard:	0
Flammability:	0
Physical hazards:	0
NFPA Rating	
Health Hazard:	0
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