

# Safety Data Sheet

## FC16-T10Octane

## 1-(Perfluorodecyl)octane

Revised 14-August-2019

Product Identifier	
Product identifier Product name Catalog number Brand CAS number	1-(Perfluorodecyl)octane FC16-T10Octane Fluoryx Labs 93454-70-7
Relevant Identified Uses of the Substa Identified uses	ance or Mixture and Uses Advised Against Laboratory chemicals. Synthesis of substances.
Details of the Supplier of the Safety D Company	ata Sheet 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)

#### Classification of the Substance or Mixture GHS classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritation (Category 3), H316

Eye irritation (Category 3), H320 Specific target organ toxicity – single exposure (Category 3), respiratory system, H335

#### **GHS Label Elements, Including Precautionary Statements**

Pictogram

Signal Word

GHS07: Exclamation mark



Warning

Hazard statement(s) H316 H320 H335

Precautionary statement(s) P261 P264 Causes mild skin irritation. Causes eye irritation. May cause respiratory irritation.

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling.

P271 P280	Use only outdoors or in a well-ventilated area. 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.
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	1,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-henicosafluorooctadecane 1-( <i>n</i> -henicosafluorodecyl)octane 8-Perfluorodecyloctane 1-Perfluorodecyloctane	
Formula	$C_{18}H_{17}F_{21}$ CF <sub>3</sub> CF <sub>2</sub>	
Molecular Weight	632.30 g/mol	
CAS Number	93454-70-7	
EC Number	None	
Hazardous Components		

Component	Classification	Concentration
1-(Perfluorodecyl)octane	Skin Irrit. 3; Eye Irrit. 3; STOT SE 3; H316, H320, H335	≤100%

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

## 4. FIRST AID MEASURES

Description of 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	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
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#### If swallowed

Continue rinsing for 15 minutes. Consult a doctor.

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

Indications of Any Immediate Medical Attention No data available.

5. FIREFIGHTING MEASURES			
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide		
Special Hazards Arising from the Substance	Hazardous decomposition products formed under fire conditions - carbon oxides and hydrogen fluoride (HF).		
Advice for Firefighters	Wear self contained breathing apparatus for fire fighting.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or dust. Ensure adequate ventilation. Evacuate personnel to safe areas.		
Environmental Precautions	Do not let product enter drains.		
Methods for Cleaning Up	Sweep or shovel up without creating dust. Keep in suitable, closed containers for disposal.		
7. HANDLING AND STORAGE			
Precautions for Safe Handling	Avoid contact with skin and eyes. Avoid formation of dust, mist or respirable particles. Provide appropriate exhaust ventilation at places where dust, mist or vapors are formed. Normal measures for preventive fire protection. Keep away from open flames and heated surfaces above 200 °C (392 °F).		
Conditions for Safe Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.		
Specific End Use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.		
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION			
Components with Workplace Control Parameters	Contains no substances with occupational exposure limit values.		
Engineering Controls	Do not create dust, aerosolize, or spray. Prevent leaks in high-pressure systems that could create fine mists.		
Personal Protective Equipment			
Eye/face 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 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.
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.
Respiratory protection	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of Environmental Exposure	Do not let product enter drains.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Waxy solid
White
No data available
51-56 °C
115 - 120 °C @ 2 mm Hg
> 100 °C (closed cup)
No data available
> 200 °C
No data available
No data available
Negligible
No data available
> 1
No data available

## 10. STABILITY AND REACTIVITY

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Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	No data available.

**Conditions to Avoid** 

**Incompatible Materials** 

Hazardous Decomposition Products

Keep away from open flames and heated surfaces above 200  $^\circ C$  (392  $^\circ F).$ 

Avoid strong oxidizing agents and strong bases.

Decomposition temperature > 200 °C. Hazardous decomposition products formed under fire conditions - carbon oxides and hydrogen fluoride (HF).

#### **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity Oral LD50 Inhalation LC50 Dermal LD50 Other information on acute toxicity	No data available 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 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 Has Single exposure Repeated exposure	armonized System) Inhalation – may cause respiratory irritation No data available
Aspiration Hazard	No data available
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: none
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 or 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
ΙΑΤΑ	Not dangerous goods
15. REGULATORY INFORMATION	
TSCA Status	Not on the inventory.
DSL Status	Not 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	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 2 and 3.		
	Eye Irrit.	Eye irritation.
	H316	Causes mild skin irritation.
	H320	Causes eye irritation.
	H335	May cause respiratory irritation.
	Skin Irrit.	Skin irritation.
	STOT SE	Specific target organ toxicity - single exposure.
HMIS R	ating	
	Health hazard	1
	Flammability	0
	Physical hazards	0
NFPA R	ating	
	Health hazard	1
	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