

Safety Data Sheet

FC16-T10Pinane

Perfluorodecyl-Pinane

Revised 22-November-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product name Perfluorodecyl-pinane
Catalog number FC16-T10Pinane
Brand Fluoryx Labs
CAS number 1421601-00-4

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Identified uses Laboratory chemicals. Synthesis 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 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 GHS07: Exclamation mark

<u>(!</u>)

Signal Word Warning

Hazard statement(s)

H316 Causes mild skin irritation. H320 Causes eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

FC16-T10Pinane SDS

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.

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 (1S,2R,5S)-2-(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-henicosafluoroundecyl)-6,6-

dimethylbicyclo[3.1.1]heptane

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Molecular Weight656.32 g/molCAS Number1421601-00-4

EC Number None

Hazardous Components

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

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. Continue rinsing for 15 minutes. Consult a doctor.

If swallowed 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 PrecautionsDo 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

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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

Appearance

Form Solid, wax Color Yellowish

Safety Data

pH No data available

Melting point/freezing point 53-65 °C

Boiling point

No data available

Flash point

> 100 °C (closed cup)

Ignition temperature

Auto-ignition temperature

Lower explosion limit

Upper explosion limit

No data available

No data available

No data available

No data available

Thermal decomposition temperature > 200 °C

Vapor pressure No data available
Density No data available

Water solubility Negligible

Partition coefficient (*n*-octanol/water) No data available

Relative vapor density (air = 1) > 1

Odor Wax-like; pine
Odor threshold No data available
Evaporation rate No data available
Viscosity No data available
Oxidizing properties No data available

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid Keep away from open flames and heated surfaces

above 200 °C (392 °F).

Incompatible Materials Avoid strong oxidizing agents and strong bases.

Hazardous Decomposition Products Decomposition temperature > 200 °C. Hazardous

decomposition products formed under fire conditions

- carbon oxides and hydrogen fluoride (HF).

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Carcinogenicity

Oral LD50
Inhalation LC50
Dermal LD50
Other information on acute toxicity

No data available
No data available
No data available

Skin Corrosion/IrritationNo data availableSerious Eye Damage/Eye IrritationNo data availableRespiratory or Skin SensitizationNo data available

Germ Cell Mutagenicity

No data available

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 Inhalation – may cause respiratory irritation

Repeated exposure 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 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 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
IATA	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 Sec Eye Irrit. H316 H320 H335 Skin Irrit. STOT SE	Extions 2 and 3. Eye irritation. Causes mild skin irritation. Causes eye irritation. May cause respiratory irritation. Skin irritation. Specific target organ toxicity - single exposure.
HMIS Rating Health hazard Flammability Physical hazards NFPA Rating Health hazard Fire Reactivity hazard	1 0 0 1 0 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