

## FC08-07

## Perfluoroheptanes

Revised 07-June-2021

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 1. PRODUCT AND COMPANY IDENTIFICATION
 

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## Product Identifier

Product Name	Perfluoroheptanes, mixture of isomers
Catalog Number	FC08-07
Brand	Fluoryx Labs
CAS no.	335-57-9

## 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)

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 2. HAZARDS INFORMATION
 

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## Emergency Overview

OSHA Hazards	No known OSHA hazards
GHS Classification	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

## GHS Label elements, including precautionary statements

Pictogram  
 Signal word



Warning

Hazard statement(s)

H315 Causes skin irritation.  
 H319 Causes serious 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.

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 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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.

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### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

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<b>Synonyms</b>	Perfluoroheptanes; Perfluorinated heptane; Hexadecafluoroheptane; Fluorinert PF5070
<b>Chemical formula</b>	C <sub>7</sub> F <sub>16</sub> CF <sub>3</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>2</sub> CF <sub>3</sub>
<b>Molecular weight</b>	388.05
<b>CAS #</b>	335-57-9
<b>EC #</b>	206-392-1
<b>TSCA</b>	Listed

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

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### 4. FIRST AID MEASURES

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<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed</b>	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

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**5. FIREFIGHTING MEASURES**

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<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus for fire fighting.
<b>Hazardous combustion products</b>	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.

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**6. ACCIDENTAL RELEASE MEASURES**

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<b>Personal precautions</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
<b>Environmental precautions</b>	Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material for disposal. Keep in suitable, closed containers for disposal.

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**7. HANDLING AND STORAGE**

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<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.
<b>Conditions for Safe Storage</b>	Keep container tightly closed in a dry and well-ventilated place.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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Contains no substances with occupational exposure limit values.

<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not let enter drains.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Hand protection</b>	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.
<b>Eye protection</b>	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**

General industrial hygiene practice.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**


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**Appearance**

Form Clear liquid  
Color Colorless

**Safety Data**

pH No data available  
Melting Point/Freezing Point -51 °C  
Boiling Point 82 - 84 °C @ 760 mm Hg  
Flash Point None  
Vapor Density 13.4 @ 20 °C (water = 1)  
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 79 mm Hg @ 20 °C  
Density 1.72 g/mL @ 25 °C  
Viscosity 0.7 centistokes @ 20 °C  
Water Solubility No data available  
Refractive index 1.269 @ 20 °C  
Relative Vapor Density (Air = 1) > 1  
Odor None  
Odor Threshold No data available  
Evaporation Rate No data available

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**10. STABILITY AND REACTIVITY**


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**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.

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**11. TOXICOLOGICAL INFORMATION**


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**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.

<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity (Globally Harmonized System)</b>	
<b>Single exposure</b>	Inhalation - May cause respiratory irritation.
<b>Repeated exposure</b>	No data available
<b>Aspiration Hazard</b>	No data available
<b>Signs and Symptoms of Exposure</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Synergistic Effects</b>	No data available
<b>Additional Information</b>	RTECS: MJ0875000

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**12. ECOLOGICAL INFORMATION**

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<b>Toxicity</b>	No data available
<b>Persistence and Degradability</b>	Does not readily degrade.
<b>Bioaccumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>PBT and vPvB Assessment</b>	No data available
<b>Other adverse effects</b>	No data available

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**13. DISPOSAL CONSIDERATIONS**

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<b>Product</b>	Offer non-recyclable solutions to a licensed disposal company. Contact Fluoryx to return unused product.
<b>Contaminated packaging</b>	Dispose of as unused product.

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**14. TRANSPORTATION INFORMATION**

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<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

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**15. REGULATORY INFORMATION**

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<b>OSHA Hazards</b>	No known OSHA hazards.
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<b>TSCA Status</b>	Listed.
<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	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.
<b>SARA 311/312 Hazards</b>	No SARA hazards.
<b>Massachusetts Right To Know Components</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right To Know Components</b>	Perfluoroheptane; CAS-No. 335-57-9
<b>New Jersey Right To Know Components</b>	Perfluoroheptane; CAS-No. 335-57-9
<b>California Prop. 65 Components</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

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**HMIS Classification**

Health Hazard:	1
Flammability:	0
Physical hazards:	0

**NFPA Rating**

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