

## FC19-PDDOA

## Perfluoro-2,5-Dimethyl-3,6-Dioxaoctanoic Acid

Revised 08-June-2023

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**1. PRODUCT AND COMPANY IDENTIFICATION**


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**Product Identifier**

Product name	Perfluoro-2,5-dimethyl-3,6-dioxaoctanoic acid
Catalog number	FC19-PDDOA
Brand	Fluoryx Labs
CAS number	2479-74-5

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

Identified uses	Laboratory chemicals.
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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 www.fluoryx.com
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**Emergency Call (VelocityEHS)**

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

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**2. HAZARDS IDENTIFICATION**


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**Classification of the Substance or Mixture**

GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin Corr. 1B	H314 - Causes severe skin burns and eye damage
Eye Dam. 1	H318 - Causes serious eye damage
STOT SE 3	H335 - May cause respiratory irritation

Full text of H-phrases: see section 16

**GHS Label Elements, Including Precautionary Statements**

Pictogram



Signal Word Danger

Hazard statement(s) GHS-US

H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statement(s)

P260 - Do not breathe dust, mist, spray
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- P264 - Wash skin thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304+P340 - If inhaled: Remove person to fresh air and keep 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  
 P310 - Immediately call a POISON CENTER or doctor/ physician  
 P321 - Specific treatment (see supplemental first aid instructions on this label)  
 P363 - Wash contaminated clothing 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

No additional information available

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Synonyms</b>	,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(1,1,2,2,2-pentafluoroethoxy)propoxy]propanoic acid
<b>Formula</b>	C <sub>8</sub> HF <sub>15</sub> O <sub>4</sub>
<b>Molecular Weight</b>	446.07 g/mol
<b>CAS Number</b>	2479-74-5
<b>EC Number</b>	None

#### Hazardous Components

Component	Classification (GHS-US)	Concentration
Perfluoro-2,5-dimethyl-3,6-dioxaoctanoic acid	Skin Corr. 1B H314. Eye Dam. 1, H318. STOT SE 3, 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

<b>General advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.
<b>If inhaled</b>	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
<b>In case of skin contact</b>	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.
<b>In case of eye contact</b>	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
<b>If swallowed</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.

**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** Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea. Treat symptomatically.

**5. FIREFIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
<b>Special Hazards Arising from the Substance</b>	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.
<b>Advice for Firefighters</b>	Wear gas tight chemically protective clothing in combination with self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
<b>Further Information</b>	No data available.

**6. ACCIDENTAL RELEASE MEASURES**

<b>General Measures</b>	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
<b>Personal Precautions</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
<b>Environmental Precautions</b>	Do not let product enter drains or waterways.
<b>Methods for Cleaning Up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
<b>Reference to other sections</b>	For disposal see section 13.

**7. HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from open flames and heated surfaces above 180 °C (356 °F).
<b>Conditions for Safe Storage</b>	Hygroscopic. Store in cool, dry 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. Moisture sensitive. Keep contents under dry inert gas.
<b>Specific End Use(s)</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<b>Components with Workplace Control Parameters</b>	Contains no substances with occupational exposure limit values.
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**Engineering Controls**

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**Personal Protective Equipment****Eye/face protection**

Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

**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**

In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.

**Control of Environmental Exposure**

Do not let product enter drains or waterways.

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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

No data available

Boiling point

102 °C @ 28 mm Hg

Flash point

No data available

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

No data available

Density

1.721 @ 20 °C

Water solubility

Soluble

Partition coefficient (*n*-octanol/water)

No data available

Relative vapor density (air = 1)

No data available

Odor

No data available

Odor threshold

No data available

Evaporation rate

No data available

Oxidizing properties

Non-oxidizing

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**10. STABILITY AND REACTIVITY**


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<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	Stable in sealed containers.
<b>Possibility of Hazardous Reactions</b>	No data available.
<b>Conditions to Avoid</b>	Keep away from open flames and heated surfaces above 180 °C (356 °F).
<b>Incompatible Materials</b>	Bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute Toxicity</b>	
Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other information on acute toxicity	No data available
<b>Skin Corrosion/Irritation</b>	No data available
<b>Serious Eye Damage/Eye Irritation</b>	May cause eye irritation
<b>Respiratory or Skin Sensitization</b>	May cause respiratory irritation
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	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.
<b>Reproductive Toxicity</b>	No data available
<b>Specific Target Organ Toxicity (Globally Harmonized System)</b>	
Single exposure	No data available
Repeated exposure	No data available
<b>Aspiration Hazard</b>	No data available
<b>Signs and Symptoms of Exposure</b>	After inhalation, material is destructive to tissue of the mucous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.
<b>Synergistic Effects</b>	No data available
<b>Additional Information</b>	RTECS: none

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## 12. ECOLOGICAL INFORMATION

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<b>Toxicity</b>	No data available
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<b>Persistence and Degradability</b>	No data available
<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 or contact Fluoryx to return unused product. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
<b>Contaminated Packaging</b>	Dispose of as unused product.

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**14. TRANSPORTATION INFORMATION**

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<b>DOT (US)</b>	UN3265: Corrosive liquid, acidic, organic, n.o.s., Class 8, packing group III DOT packaging non-bulk: 203
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<b>IATA</b>	UN 3265: Corrosive liquid, acidic, organic, n.o.s., Class 8, packing group III
<b>IMDG</b>	UN 3265: Corrosive liquid, acidic, organic, n.o.s., Class 8, packing group III

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**15. REGULATORY INFORMATION**

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<b>TSCA Status</b>	Not listed on the inventory.
<b>DSL Status</b>	No additional information available.
<b>IECSC</b>	No additional information available.
<b>ISHL</b>	No additional information available.
<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>	Corrosive.
<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>	No components are subject to the Pennsylvania Right to Know Act.
<b>New Jersey Right to Know Components</b>	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-phrases:**

- None Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H335 May cause respiratory irritation

**HMIS Rating**

Health hazard	3
Flammability	1
Physical hazards	0

**NFPA Rating**

Health hazard	3
Fire	1
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