

Safety Data Sheet

FC19-PDDNA

Perfluoro-2,5-Dimethyl-3,6-Dioxanonanoic Acid

Revised 09-June-2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product name Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid

Catalog number FC19-PDDNA
Brand Fluoryx Labs
CAS number 13252-14-7

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

Identified uses Laboratory chemicals.

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

Emergency Call (VelocityEHS) +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 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

Synonyms 2,3,3,3-Tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-

(1,1,2,2,3,3,3-heptafluoropropoxy)propoxy]propanoic

acid

Formula C₉HF₁₇O₄
Molecular Weight 496.08 g/mol

CAS Number 13252-14-7

EC Number None

Hazardous Components

Component	Classification (GHS-US)	Concentration	
Perfluoro-2,5-dimethyl-3,6-dioxanonanoic acid	Skin Corr. 1B H314.	≤100%	
	Eye Dam. 1, H318.		
	STOT SE 3, 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 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.

If inhaled Remove person to fresh air and keep comfortable

for breathing. If not breathing, give artificial

respiration. Get immediate medical advice/attention.

In case of skin contact Wash with plenty of soap and water. Remove

contaminated clothing and shoes. Get immediate

medical advice/attention.

In case of eye contact 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.

If swallowed

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		
Suitable Extinguishing Media	Alcohol resistant foam. Carbon dioxide. Dry powde Water spray. Use extinguishing media appropriate for surrounding fire.	
Special Hazards Arising from the Substance	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride.	
Advice for Firefighters	Wear gas tight chemically protective clothing in combination with self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".	
Further Information	No data available.	
6. ACCIDENTAL RELEASE MEASURES		
General Measures	Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.	
Environmental Precautions	Do not let product enter drains or waterways.	
Methods for Cleaning Up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	
Reference to other sections	For disposal see section 13.	
7. HANDLING AND STORAGE		
Precautions for Safe Handling	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).	
Conditions for Safe Storage	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.	
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		

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Components with Workplace Control Parameters

Contains no substances with occupational exposure

limit values.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Clear liquid
Color Colorless

Safety Data

pΗ No data available Melting point/freezing point No data available Boiling point 135 °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 1.738 @ 20 °C Density Water solubility Soluble

Partition coefficient (*n*-octanol/water)

Relative vapor density (air = 1)

Odor

Odor

No data available

Non-oxidizing

10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical Stability Stable in sealed containers.

Possibility of Hazardous Reactions No data available.

Conditions to Avoid Keep away from open flames and heated surfaces

above 180 °C (356 °F).

Incompatible Materials Bases. Strong oxidizing agents.

Hazardous Decomposition Products

Under normal conditions of storage and use,

hazardous decomposition products should not be produced. Hazardous decomposition products in

case of fire, see Section 5.

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

Okin Concentration

Serious Eye Damage/Eye Irritation May cause eye irritation

Respiratory or Skin Sensitization May cause respiratory irritation

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
Repeated exposure
No data available
No data available
No data available

Signs and Symptoms of Exposure After inhalation, material is destructive to tissue of

the mucous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

Synergistic Effects

No data available

Additional Information

RTECS: none

12. ECOLOGICAL INFORMATION

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Toxicity	No data available
Persistence and Degradability	No data available
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. Remove to an authorized incinerator equipped with an afterburner and a flue gas

scrubber.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORTATION INFORMATION

DOT (US)UN3265: Corrosive liquid, acidic, organic, n.o.s.,

Class 8, packing group III

DOT packaging non-bulk: 203



IATA UN 3265: Corrosive liquid, acidic, organic, n.o.s.,

Class 8, packing group III

IMDG UN 3265: Corrosive liquid, acidic, organic, n.o.s.,

Class 8, packing group III

15. REGULATORY INFORMATION

TSCA StatusNot listed on the inventory.

DSL Status

No additional information available.

IECSC

No additional information available.

ISHL

No additional information available.

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 Corrosive.

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.

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