

# Safety Data Sheet

## FC13-TTEF

# 5H-Octafluoro-3-Oxapentanesulfonyl Fluoride

Revised 27-November-2022

1. PRODUCT AND COMPANY IDENTIFICA	TION
Product Name	5H-Octafluoro-3-oxapentanesulfonyl fluoride
Catalog Number	FC13-TTEF
CAS Number	104729-49-9
Supplier	<b>Fluoryx Labs</b> 3650 Research Way, #22 Carson City, NV 89706 USA
Emergency call (VelocityEHS):	+01-813-248-0585 (International) +1-800-255-3924 (USA)
2. HAZARDS INFORMATION	
Emergency Overview	
OSHA Hazards	No known OSHA hazards
GHS Classification	Skin irritation, H315 Eye irritation, H319 Respiratory irritation, H335
GHS Label elements, including preca	utionary statements
Pictogram Signal word	Warning
Hazard statement(s)	H315: Causes skin irritation. H320: Causes eye irritation. H335: May cause respiratory irritation
Precautionary statement(s)	<ul> <li>P264: Wash hands thoroughly after handling.</li> <li>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P332 + P313: If skin irritation occurs: Get medical advice/attention.</li> <li>P337 + P313: If eye irritation persists: Get medical</li> </ul>

### advice/attention.

Hazards not otherwise classified (HNOC) or not covered by GHS Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

Synonyms		1,1,2,2-Tetrafluoro-2-(		
Chemical formula		tetrafluoroethoxy)ethanesulfonyl fluoride FSO2CF2CF2OCF2CF2H C4HF9O3S		
Molecular weight		300.1 g/mol		
Components				
	Concentration		EC #	TSCA
5H-Octafluoro-3- oxapentanesulfonyl fluoride	≤ 100%	104729-49-9	None	Not listed
4. FIRST AID MEASURES				
If inhaled		If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.		
In case of skin contact		Wash off with soap ar	nd plenty of wa	ter.
In case of eye contact		Flush eyes with water physician	for 15 minutes	s. Consult a
If swallowed	Never give anything by mouth to an uncon person. Rinse mouth with water. Consult physician.			
5. FIREFIGHTING MEASURES				
Suitable extinguishing media		Use extinguishing measures that are appropriate local circumstances and the surrounding environment, such as: carbon dioxide, dry chemi powder, water. Do not use water with a full water		ding le, dry chemica
Special protective equipment for fi	-	Wear self-contained b fighting.	preathing appa	ratus for fire
Hazardous combustion products		Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, sulfur oxides.		
6. ACCIDENTAL RELEASE MEASU	JRES			
Personal precautions		Wear personal protective equipment. Avoid conta with the skin and the eyes. Ensure adequate ventilation. Avoid inhalation of vapor, mist, dust, gas.		Idequate
Environmental precautions		Do not let product ent environment must be		harge into the
Methods for cleaning up		Mix with sand or verm labeled salvage conta appropriate method		
7. HANDLING AND STORAGE				
Precautions for Safe Handling		Avoid contact with ski vapor or mist. Normal		

Conditions for Safe StorageKeep container tightly closed in a dry and well- ventilated place.		protection.
	Conditions for Safe Storage	

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### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment	
Respiratory protection	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand 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.
Eye protection	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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Form	Liquid
Color	Colorless
Safety Data	
pН	7
Melting Point/Freezing Point	No data available
Boiling Point	130-131 °C @ 760 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	1.415 g/mL @ 20 °C
Water Solubility	Slightly soluble
Partition Coefficient (n-octanol/water)	No data available
Relative Vapor Density (Air = 1)	> 1
Odor	Ether-like

Odor Threshold	No data available
Evaporation Rate	No data available
Refractive index	No data available
Viscosity	No data available

 10. STABILITY AND REACTIVITY

 Storage stability
 Stable under recommended storage conditions.

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Possibility of hazardous reactions	Polymerization will not occur.
Conditions to avoid	Keep away from open flames and heated surfaces above 300 °C.
Materials to avoid	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions - carbon oxides, hydrogen fluoride, carbonyl fluoride.

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### 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	Irritating to skin and mucous membranes.
Serious eye damage/eye irritation	Irritant effect.
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 Harmonia Single exposure Repeated exposure	<b>zed System)</b> No data available No data available
Aspiration Hazard	No data available
Potential Health Effects Inhalation Skin	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause

Eyes Ingestion	skin irritation. May cause eye irritation. May be harmful if swallowed.
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	No data available
12. ECOLOGICAL INFORMATION	
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. Contact Fluoryx Labs 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	
OSHA Hazards	No known OSHA hazards.
TSCA Status	Not listed.
DSL Status	This product does not contain components 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	No SARA hazards.
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.

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16. OTHER INFORMAT	ION

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 MSDS