

Perfluoro(1,3-propanesultone) Safety Data Sheet 6H70203 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/17/2020 Version: 1.0

1.1. Identification	
Product form	: Substance
Substance name	: Perfluoro(1,3-propanesultone)
CAS No	: 16798-65-5
Product code	: 6H70-2-03
Formula	: C3F6O3S
Synonyms	: 3,3,4,4,5,5,-Hexafluoro-1,2-oxathiane 2,2-dioxide
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs. 1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	. (077) 520-4000 (SE Company * Account 10003)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	r mixture
Classification (GHS-US)	
Skin Sone 18 U917 Mov course on	
Muta. 2H341 - Suspected of cCarc. 2H351 - Suspected of c	causing genetic defects causing cancer
Muta. 2H341 - Suspected of cCarc. 2H351 - Suspected of cSTOT SE 3H335 - May cause resp	causing genetic defects causing cancer
Muta. 2H341 - Suspected of cCarc. 2H351 - Suspected of cSTOT SE 3H335 - May cause respFull text of H-phrases: see section 16	causing genetic defects causing cancer
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Muta. 2H341 - Suspected of cCarc. 2H351 - Suspected of cSTOT SE 3H335 - May cause respFull text of H-phrases: see section 162.2.Label elements	causing genetic defects causing cancer
Muta. 2       H341 - Suspected of c         Carc. 2       H351 - Suspected of c         STOT SE 3       H335 - May cause resp         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	Evaluating genetic defects evaluating cancer piratory irritation
Muta. 2       H341 - Suspected of c         Carc. 2       H351 - Suspected of c         STOT SE 3       H335 - May cause resp         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling         Hazard pictograms (GHS-US)	Evaluating genetic defects eausing cancer piratory irritation

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P302+P352 - If on skin: Wash with plenty of soap and water
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
P308+P313 - If exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P330 - Rinse mouth
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
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

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

Substance type

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
Perfluoro(1,3-propanesultone) (Main constituent)	(CAS No) 16798-65-5	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335

### Full text of H-phrases: see section 16

3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: 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.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after 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.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
nout of inpromationity.	

SECT	ION 5: Firefighting measures			
5.1.	Extinguishing media			
Suitable	extinguishing media	: Alcohol resistant foam. Carbo appropriate for surrounding fi	n dioxide. Dry powder. Water spray. Use extingu re.	iishing media
5.2.	Special hazards arising from the	substance or mixture		
Fire haz	zard	: Thermal decomposition gene	rates: Carbon oxides. Hydrogen fluoride. Sulfur o	oxides.
Explosi	on hazard	: Risk of explosion if heated un containers.	der confinement. Use water spray or fog for cool	ing exposed
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5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release I	neasures
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify au	thorities if product enters sewers or public waters.
6.3. Methods and material for conta	ainment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	ae
7.1. Precautions for safe handling	
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.
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Heat-ignition	: Heat sensitive.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	

0.2. Exposure controls	
Appropriate 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.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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<b>SECTION 9: Physical and chemica</b>	al properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 230.086 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	
<b>SECTION 10: Stability and reactivi</b>	ity
10.1. Reactivity	

No additional information available

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### Keep away from heat, sparks and flame.

**Conditions to avoid** 

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### 10.6. 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.

SECTION 11: Toxicological information		
11.1.	Information on toxicological effects	
Acute to:	xicity	: Oral: Harmful if swallowed.

Skin corrosion/irritation	: Causes skin irritation.	
ATE US (oral)	500.000 mg/kg body weight	
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10.4.

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods :	Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.			
Waste disposal recommendations :	Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Additional information :	Recycle the material as far as possible.			

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT Not regulated for transport

TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

### SECTION 15: Regulatory information

### 15.1. US Federal regulations

 All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

 Substances Control Act (TSCA) inventory except for:

 Perfluoro(1,3-propanesultone)
 CAS No 16798-65-5

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations			
CANADA No additional information available			
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### **EU-Regulations**

No additional information available

### **National regulations**

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### **SECTION 16: Other information**

Full text of H-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1B	Skin sensitization Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer

1001		
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.