

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 8169316 Issue date: 04.04.2016 Revision date: 18.12.2023 Version: 1.1

#### **SECTION 1: Identification** 1.1. Identification Product form · Substance Perfluorohexanesulfonamide Substance name • CAS-No. 41997-13-1 : Product code : 8169-3-16 Formula : C6H2F13NO2S Synonyms : 1,1,2,2,3,3,4,4,5,5,6,6,6-Tridecafluorohexane-1-sulfonamide Other means of identification : MFCD09263736 1.2. Recommended use and restrictions on use Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Supplier SynQuest Laboratories, Inc. Inc. P.O. Box 309 Alachua, FL, Alachua, 32615 United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number : (844) 523-4086 (3E Company - Account 10069) Emergency number SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** H315 Skin corrosion/irritation Category 2 Causes skin irritation Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation Specific target organ toxicity - Single exposure, Category 3, H335 May cause respiratory irritation Respiratory tract irritation Full text of H statements : see section 16 2.2. GHS Label elements, including precautionary statements **GHS US labeling** Hazard pictograms (GHS US)

P264 - Wash skin thoroughly after handling

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P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it 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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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

#### 3.1. Substances

Substance type

: Mono-constituent

Name	Product identifier	%	GHS US classification
Perfluorohexanesulfonamide (Main constituent)	CAS-No.: 41997-13-1		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	i de la constante de la constan
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 medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. Get 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 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 medical advice/attention.
4.2. Most important symptoms and e	ffects (acute and delayed)
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2)

and/or in section 11.

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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media			
5.2. Specific hazards arising from the cl	hemical		
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides. Sulfur oxides.		
5.3. Special protective equipment and p	recautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>In case of fire: Evacuate area.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protectiv	e equipment and emergency procedures	
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.	
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".	
6.2. Environmental precautions		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for con	tainment and cleaning up
For containment Methods for cleaning up Other information	<ul> <li>Stop leak if safe to do so.</li> <li>Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.</li> <li>For disposal of solid materials or residues refer to section 13 : "Disposal considerations".</li> </ul>
6.4. Reference to other sections	

No additional information available

SECTION 7: Handling and storage	
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 dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: 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.

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7.2. Conditions for safe storage, including any incompatibilities		
Technical measures Storage conditions	<ul><li>Comply with applicable regulations.</li><li>Keep container closed when not in use.</li></ul>	
Incompatible materials Storage area	<ul><li>Refer to Section 10 on Incompatible Materials.</li><li>Store in dry, cool, well-ventilated area.</li></ul>	

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Perfluorohexanesulfonamide (41997-13-	1)
No additional information available	
8.2. Appropriate engineering 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.
8.3. Individual protection measures/Perso	onal protective equipment
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:**

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

### Personal protective equipment symbol(s):



#### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties		
9.1. Information on basic phy	vsical and chemical properties	
Physical state	: Solid	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 116 – 119 °C	
Freezing point	: No data available	
Boiling point	: No data available	

Flash point

: No data available

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#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 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

**10.4. Conditions to avoid** 

Keep away from heat, sparks and flame.

**10.5. Incompatible materials** 

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 toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified

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Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

12.2. Persistence and degradability	
Perfluorohexanesulfonamide (41997-13-1)	
Persistence and degradability	Not readily biodegradable. May cause long-term adverse effects in the environment. PBT - Persistent, Bioaccumulative and Toxic.
12.3. Bioaccumulative potential	

Perfluorohexanesulfonamide (41997-13-1)	
Bioaccumulative potential	Perfluorinated alkanes (PFAs, "forever chemicals") are long lasting, widely used chemicals that break down slowly over time. The potential hazards of PFAs are under investigation and have not been established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	5
13.1. Disposal methods	
Waste treatment methods Sewage disposal recommendations	<ul> <li>Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.</li> <li>See the EPA's Interim Guidance on PFAS Destruction and Disposal.</li> </ul>
Product/Packaging disposal recommendations Additional information	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Recycle the material as far as possible.</li> </ul>
Ecology - waste materials	: This material is considered to be a "Forever chemical". Prevent any possible release to the

: This material is considered to be a "Forever chemical". Prevent any possible release to the environment. Do not discharge into drains. Take all necessary measures to prevent accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems, or emergency response.

## SECTION 14: Transport information

#### 14.1. UN number

Not regulated for transport

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14.2. UN proper shipping name				
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>			
14.3. Transport hazard class(es)				
DOT Transport hazard class(es) (DOT)	: Not applicable			
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable			
IMDG Transport hazard class(es) (IMDG)	: Not applicable			
IATA Transport hazard class(es) (IATA)	: Not applicable			
14.4. Packing group				
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>			
14.5. Environmental hazards				
Other information	: No supplementary information available.			
14.6. Special precautions for user				
DOT No data available				
TDG No data available				
IMDG No data available				
IATA No data available				
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
Not applicable				
SECTION 15: Regulatory information				

## 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
Perfluorohexanesulfonamide	CAS-No. 41997-13-1	100%

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#### **15.2. International regulations**

#### CANADA

No additional information available

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, developmental and/or reproductive harm

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

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Full text of H-phrases			
H315	Causes skin irritation		
H319	Causes serious eye irritation	Causes serious eye irritation	
H335	May cause respiratory irritation		
NFPA health haza		3 - Materials that, under emergency conditions, can cause serious or permanent injury.	
NFPA fire hazard	:	0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity		0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating			
Health	:	2 Moderate Hazard - Temporary or minor injury may occur	
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.	

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