

Safety Data Sheet 1200313 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/02/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	• • • • •
Product form	: Substance
Substance name	: cis-1H,2H-Octafluorocyclopentane
CAS No	: 17481-95-7
Product code	: 1200-3-13
Formula	: C5H2F8
Other means of identification	: MFCD27918465
1.2. Relevant identified uses of the set	ubstance or mixture and uses advised against
No additional information available	
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)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye ir STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep 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>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>
2.3. Other hazards	
No additional information available	

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#### Unknown acute toxicity (GHS US) 2.4. Not applicable

Not applicable					
SECTION 3: Composition/information on ingredients					
3.1. Substance					
Substance type	: Mon	o-constituent			
Name		Product identifier	%	Classification (GHS-US)	
cis-1H,2H-Octafluorocyclopentane (Main constituent)		(CAS No) 17481-95-7	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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		ase of accident or if you feel unw re possible). Move the affected p			
First-aid measures after inhalation		nove person to fresh air and keep iration. Get medical advice/atten		hing. If not breathing, give artificial	
First-aid measures after skin contact		h with plenty of soap and water.			
First-aid measures after eye contact		ediately flush eyes thoroughly wince/attention.	ith water for at least 15	5 minutes. Get medical	
First-aid measures after ingestion		NOT induce vomiting. Never give th out with water. Get medical ac		an unconscious person. Rinse	
4.2. Most important symptoms and e	fects, both	acute and delayed			
Symptoms/injuries		most important known symptom and/or in section 11.	s and effects are desc	ribed in the labelling (see section	
4.3. Indication of any immediate med	ical attenti	on and special treatment need	ed		
Treat symptomatically.					
SECTION 5: Firefighting measures	-				
5.1. Extinguishing media	5				
Suitable extinguishing media		hol resistant foam. Carbon dioxio opriate for surrounding fire.	de. Dry powder. Water	spray. Use extinguishing media	
5.2. Special hazards arising from the	substance	or mixture			
Fire hazard	: The	mal decomposition generates: C	arbon oxides. Hydrog	en fluoride.	
5.3. Advice for firefighters					
Protection during firefighting		not attempt to take action without to section 8: "Exposure controls		uipment. For further information	
SECTION 6: Accidental release m	easures				
6.1. Personal precautions, protective	equipmen	and emergency procedures			
General measures		cuate unnecessary personnel. En or or spray.	nsure adequate air ver	ntilation. Do not breathe gas, fumes,	
6.1.1. For non-emergency personnel					
Emergency procedures	: Only	qualified personnel equipped w	ith suitable protective	equipment may intervene.	
6.1.2. For emergency responders					
Protective equipment		not attempt to take action without to section 8: "Exposure controls		uipment. For further information	
6.2. Environmental precautions					
Avoid release to the environment. Notify authorities if product enters sewers or public waters.					
6.3. Methods and material for containment and cleaning up					
For containment		for recovery or absorb with app	ropriate material.		
Methods for cleaning up	: Take expl	e up large spills with pump or vac	cuum and finish with d small spills with dry ch	ry chemical absorbent. Use nemical absorbent. Sweep or shovel	
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Respiratory protection

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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			
7.1. Precautions for safe handling			
Precautions for safe handling	: 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	: 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.		
7.2. Conditions for safe storage, inclu	ding any incompatibilities		
Storage conditions	: Keep container tightly closed.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
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				
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.			
Eye protection	: Chemical goggles or safety glasses. Face shield.			
Skin and body protection	: Wear suitable protective clothing.			

: In case of insufficient ventilation, wear suitable respiratory equipment.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	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	: 80 °C
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	: 214.06 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

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9.2.	Other information							
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No additi	onal information available							
SECTION	SECTION 10: Stability and reactivity							
10.1.	Reactivity							
No additi	No additional information available							
10.2.	Chemical stability							
The prod	uct is stable at normal handling and storage conditions.							
10.3.	Possibility of hazardous reactions							
No additi	No additional information available							
10.4.	Conditions to avoid							
No additional information available								
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	: 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
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: 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 tre	atment 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.	

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### **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:

cis-1H,2H-Octafluorocyclopentane

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.

CAS No 17481-95-7

#### **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 and/or reproductive harm

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

#### Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A			
Skin Irrit. 2	Skin corrosion/irritation Category 2			
STOT SE 3	Specific target organ toxicity (single exposure) Category 3			
H315	Causes skin irritation			
H319	Causes serious eye irritation			
H335	May cause respiratory irritation			

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#### NFPA health hazard

NFPA health hazard	<ol> <li>1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.</li> </ol>	
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.	

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HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
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.