

Safety Data Sheet 210832P according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/17/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Bis(1,1,1,3,3,3-hexafluoropropoxy)methane
CAS No	: 194039-81-1
Product code	: 2108-3-2P
Formula	: C7H4F12O2
Synonyms	: 1,1,1,3,3,3-Hexafluoro-2-{[(1,1,1,3,3,3-hexafluoropropan-2-yl)oxy]methoxy}propane;
Cynonymo	Bis(1,1,1,3,3,3-hexafluoropropan-2-oxy)methane
1.2. Relevant identified uses of the subs	tance 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 safety of	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.com	<u>n</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	lixture
STOT SE 3 H335 - May cause respiratory irrit Full text of H-phrases: see section 16 2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	CHS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling

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.3. Other hazards			
o additional information available			
4. Unknown acute toxicity (GHS US)		
lot applicable			
ECTION 3: Composition/information	tion on ingredients		
.1. Substance			
substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Bis(1,1,1,3,3,3-hexafluoropropoxy)methane (Main constituent)	(CAS No) 194039-81-1	<= 100	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
ull text of H-phrases: see section 16	·		
2. Mixture			
lot applicable			
ECTION 4: First aid measures			
1. Description of first aid measures			
rst-aid measures general	where possible). Move the a	feel unwell, seek medical advice iffected personnel away from the	contaminated area.
irst-aid measures after inhalation	respiration. Get medical adv	rice/attention.	ng. If not breathing, give artificial
irst-aid measures after skin contact	. , .	d water. Get medical advice/atte	
irst-aid measures after eye contact	present and easy to do. Cor	tinue rinsing. Get medical advice	
irst-aid measures after ingestion	mouth out with water. Get m	ever give anything by mouth to a redical advice/attention.	n unconscious person. Rinse
.2. Most important symptoms and ef			
ymptoms/injuries	: The most important known s 2.2) and/or in section 11.	symptoms and effects are descril	bed in the labelling (see section
I.3. Indication of any immediate med	ical attention and special treatme	ent needed	
Freat symptomatically.			
SECTION 5: Firefighting measures	5		
.1. Extinguishing media			
uitable extinguishing media	: Alcohol resistant foam. Carb appropriate for surrounding	oon dioxide. Dry powder. Water s fire.	pray. Use extinguishing media
.2. Special hazards arising from the	substance or mixture		
ïre hazard		erates: Carbon oxides. Hydroger	
xplosion hazard	: Risk of explosion if heated u containers.	inder confinement. Use water sp	ray or fog for cooling exposed
.3. Advice for firefighters			
irefighting instructions		a. Fight fire remotely due to the	•
rotection during firefighting		rotective clothing in combination nation refer to section 8: "Exposu	
SECTION 6: Accidental release mo			
5.1. Personal precautions, protective			lation. Do not broothe app furner
eneral measures	 Evacuate unnecessary pers vapor or spray. 	onnei. Ensure adequate air venti	lation. Do not breathe gas, fumes,
.1.1. For non-emergency personnel			
mergency procedures	: Only qualified personnel equ	uipped with suitable protective ec	uipment may intervene.
.1.2. For emergency responders			
rotective equipment		n without suitable protective equi	pment. For further information
mergency procedures			ces, particularly at or below ground
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6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if product enters sewers or public waters.		
5.3. Methods and material for containment 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		
7.1. Precautions for safe handling		
Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ensure go ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear perso 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, includin	g 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.	
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. 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.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

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Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: 65 - 67 °C 75		
Freezing point	: No data available		
Melting point	: No data available		
рН	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Liquid		
9.1. Information on basic physical and	d chemical properties		

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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 348.0863 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	

9.2. No additional information available

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
No add	No additional information available			
10.2.	Chemical stability			
The pro	oduct is stable at normal handling and storage conditions.			
10.3.	Possibility of hazardous reactions			
No add	No additional information available			
10.4.	Conditions to avoid			
Keep a	way from heat, sparks and flame.			
10.5.	Incompatible materials			
Strong	oxidizing agents.			
10.6.	Hazardous decomposition products			
	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of e Section 5.			

SECTION 11: Toxicological information				
11.1.	Information on toxicological effects			

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

SECT	ON 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrut	ber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instruction	IS.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information	ion	
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	ation	
15.1. US Federal regulations		
All components of this product are listed, Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmental Protection Agency Toxic except for:	
Bis(1,1,1,3,3,3-hexafluoropropoxy)methan	e CAS No 194039-81-1 100%	

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

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 Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

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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	: 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.

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.