

Hexafluoro-2-butyne Safety Data Sheet 1500202 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/26/2017 Version: 1.0

SECTION 1: Identification	on
1.1. Identification	
Product form	: Substance
Substance name	: Hexafluoro-2-butyne
CAS No	: 692-50-2
Product code	: 1500-2-02
Formula	: C4F6
Synonyms	: 1,1,1,4,4,4-Hexafluorobut-2-yne
Other means of identification	: MFCD00039264
1.2. Relevant identified u	uses of the substance 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 suppli	ier of the safety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United Sta T (386) 462-0788 - F (386) 462 info@synquestlabs.com - www.	-7097 .synquestlabs.com
1.4. Emergency telephore	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) i	dentification
2.1. Classification of the	substance or mixture
Classification (GHS-US)	
	H380 - May displace oxygen and cause rapid suffocation H280 - Contains das under pressure: may explode if heated
Liquefied gas Acute Tox. 1 (Inhalation:gas) Skin Irrit. 2 Eye Irrit. 2A	<ul> <li>H280 - Contains gas under pressure; may explode if heated</li> <li>H330 - Fatal if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Liquefied gas Acute Tox. 1 (Inhalation:gas) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3	<ul> <li>H280 - Contains gas under pressure; may explode if heated</li> <li>H330 - Fatal if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
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Simple Asphy Liquefied gas Acute Tox. 1 (Inhalation:gas) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 Full text of H-phrases: see sect 2.2. Label elements GHS-US labeling	<ul> <li>H280 - Contains gas under pressure; may explode if heated</li> <li>H330 - Fatal if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
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Liquefied gas Acute Tox. 1 (Inhalation:gas) Skin Irrit. 2 Eye Irrit. 2A STOT SE 3 Full text of H-phrases: see sect 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	H280 - Contains gas under pressure; may explode if heated H330 - Fatal if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation ion 16

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	P32 P33 P33 P36 P40 P40 P40 P41	20 - Specific treatment is urgent (see supp 21 - Specific treatment (see supplemental 32+P313 - If skin irritation occurs: Get med 37+P313 - If eye irritation persists: Get med 32+P364 - Take off contaminated clothing 33+P233 - Store in a well-ventilated place. 55 - Store locked up 10+P403 - Protect from sunlight. Store in a 21 - Dispose of contents/container to an ap	first aid instruction dical advice/atter dical advice/atter and wash it befor Keep container well-ventilated	ons on this label) ntion ntion ore reuse tightly closed place
2.3. Other hazards				
Other hazards not contributing to the	: May	y cause frostbite.		
classification 2.4. Unknown acute toxicity (				
2.4. Unknown acute toxicity ( Not applicable	313 03/			
	formation on i	narodionto		
SECTION 3: Composition/in	formation on I	ngrealents		
3.1. Substance	· Mo	no-constituent		
Substance type	. 10101			
Name		Product identifier	%	Classification (GHS-US)
Hexafluoro-2-butyne (Main constituent)		(CAS No) 692-50-2	<= 100	Simple Asphy, H380 Liquefied gas, H280 Acute Tox. 1 (Inhalation:gas), H330 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 measu	ires			
4.1. Description of first aid me	easures			
First-aid measures general		ase of accident or if you feel unwell, seek		
First-aid measures after inhalation	: Rer	ere possible). Move the affected personnel nove person to fresh air and keep comfort piration. Get immediate medical advice/att	able for breathir	
First-aid measures after skin contact		w frosted parts with lukewarm water. Do r ice/attention.	no rub affected a	rea. Get immediate medical
First-aid measures after eye contact	: Rer thoi	nove contact lenses, if present and easy to roughly with water for at least 15 minutes.	o do. Continue r Get immediate r	insing. Immediately flush eyes nedical advice/attention.
		e to its physical form, exposure to this cher		
First-aid measures after ingestion	give	e anything by mouth to an unconscious pe dical advice/attention.		an out with water. Oct immediate
-	give med	dical advice/attention.		
4.2. Most important symptom Symptoms/injuries	give med s and effects, both : The 2.2)	dical advice/attention. h acute and delayed most important known symptoms and effe and/or in section 11.	ects are describ	
4.2. Most important symptom Symptoms/injuries Symptoms/injuries after inhalation	give med s and effects, both : The 2.2) : May	dical advice/attention. h acute and delayed e most important known symptoms and effe ) and/or in section 11. y cause drowsiness or dizziness.		
4.2. Most important symptom Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact	give med s and effects, both : The 2.2) : May : Cor	dical advice/attention. h acute and delayed e most important known symptoms and effer ) and/or in section 11. y cause drowsiness or dizziness. htact with the liquid the may cause cold bu	rns/frostbite.	ed in the labelling (see section
<b>4.2. Most important symptom</b> Symptoms/injuries Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	give med s and effects, both : The 2.2) : May : Cor : Dire to fr	dical advice/attention. h acute and delayed most important known symptoms and effer and/or in section 11. y cause drowsiness or dizziness. htact with the liquid the may cause cold bu act contact with the liquefied gas may cause rostbite from rapid liquid evaporation.	rns/frostbite.	ed in the labelling (see section
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<ul> <li>4.2. Most important symptom Symptoms/injuries</li> <li>Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact</li> <li>4.3. Indication of any immedia</li> <li>No additional information available</li> <li>SECTION 5: Firefighting media</li> <li>Suitable extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from</li> </ul>	give med s and effects, both : The 2.2) : May : Cor : Dire to fi ate medical attenti : asures : Alco app rom the substance	dical advice/attention. h acute and delayed e most important known symptoms and effer ) and/or in section 11. y cause drowsiness or dizziness. htact with the liquid the may cause cold bu ect contact with the liquefied gas may cause rostbite from rapid liquid evaporation. ion and special treatment needed phol resistant foam. Carbon dioxide. Dry p propriate for surrounding fire.	rns/frostbite. se severe and po owder. Water sp	ed in the labelling (see section ossibly permanent eye injury due oray. Use extinguishing media
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5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul> <li>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</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 m	easures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. May cause suffocation by reducing oxygen available for breathing. 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 auth	norities if product enters sewers or public waters.
6.3. Methods and material for contai	nment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: 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	9
7.1. Precautions for safe handling	
Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Close valve after each use and when empty.
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, gas, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Safe handling of the gas receptacle	: Securely chain cylinders when in use and protect against physical damage.
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, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C 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/pe	ersonal 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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating gases may be released. Gas detectors should be used when toxic gases may be

	released.
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 Protec

- : Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection. Skin and body protection
  - : Wear suitable protective clothing.

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Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Thermal hazard protection	: Cold insulating gloves.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and che	

OEO HON 5. 1 Hysiour and chemiour	
9.1. Information on basic physical and c	chemical properties
Physical state	: Gas
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: -117.4 °C
Freezing point	: No data available
Boiling point	: -24.6 °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	: 90 psig (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 162.03 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

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Protect	from sunlight. Do not expose to temperatures exceeding 50 °C. Keep away from heat, sparks and flame.
10.5.	Incompatible materials
Strong of	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.
SECT	ION 11: Toxicological information
11.1.	Information on toxicological effects

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Acute toxicity	: Inhalation:gas: Fatal if inhaled.
Hexafluoro-2-butyne (692-50-2)	
LC50 inhalation rat (ppm)	81 ppm/4h
ATE US (gases)	81.000 ppmV/4h
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
Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eye contact	<ul> <li>May cause drowsiness or dizziness.</li> <li>Contact with the liquid the may cause cold burns/frostbite.</li> <li>Direct contact with the liquefied gas may cause severe and possibly permanent eye injury due to frostbite from rapid liquid evaporation.</li> </ul>

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

<b>SECTION 13: Disposal consideration</b>	ons	
13.1. Waste treatment methods		
Waste treatment methods: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrWaste disposal recommendations: Dispose of contents/container in accordance with licensed collector's sorting instructionAdditional information: Recycle the material as far as possible.		
<b>SECTION 14: Transport information</b>	1	
Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3160 Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A), 2.3	
UN-No.(DOT)	: UN3160	

/	
Proper Shipping Name (DOT)	: Liquefied gas, toxic, flammable, n.o.s.
	Inhalation Hazard Zone A
Transport hazard class(es) (DOT)	: 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Hazard labels (DOT) 2.3 - Poison gas 2.1 - Flammable gas DOT Packaging Non Bulk (49 CFR 173.xxx) : 192 DOT Packaging Bulk (49 CFR 173.xxx) : 245 DOT Symbols : G - Identifies PSN requiring a technical name DOT Special Provisions (49 CFR 172.102) : 1 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone A (see 173.116(a) or 173.133(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter. DOT Packaging Exceptions (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : Forbidden (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : Forbidden CFR 175.75) DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded. DOT Vessel Stowage Other : 40 - Stow "clear of living quarters" Other information : No supplementary information available. TDG No additional information available Transport by sea UN-No. (IMDG) : 3160 Proper Shipping Name (IMDG) : LIQUEFIED GAS, TOXIC, FLAMMABLE, N.O.S. Class (IMDG) : 2 - Gases Air transport : 3160 UN-No. (IATA) Proper Shipping Name (IATA) : Liquefied gas, toxic, flammable, n.o.s. Class (IATA) : 2 **SECTION 15: Regulatory information** 

5.1. US Federal regulations	
Hexafluoro-2-butyne (692-50-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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

Hexafluoro-2-butyne (692-50-2)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

## National regulations

No additional information available

### 15.3. US State regulations

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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. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Liquefied gas	Gases under pressure Liquefied gas
Simple Asphy	Simple Asphyxiant
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
H380	May displace oxygen and cause rapid suffocation

NFPA health hazard	: 4 - Very short exposure could cause death or serious 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	: 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
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.