

Safety Data Sheet 1300B19 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/22/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Bromo-2,3,3,3-tetrafluoropropene
CAS No	: 666-32-0
Product code	: 1300-B-19
Formula	: C3HBrF4
Synonyms	: 1-Bromo-2,3,3,3-tetrafluoroprop-1-ene
Other means of identification	: MFCD03095423
1.2. Relevant identified 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 supplier of the sa	afety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
2.1. Classification of the substance Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye	n irritation
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	n irritation
Classification (GHS-US)Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 162.2.Label elements	n irritation
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n irritation
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	n irritation ory irritation : \overbrace{c}_{GHS07}
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	n irritation by irritation : Varning
Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	n irritation ory irritation : \overbrace{c}_{GHS07}
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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	n on in	aredients		
3.1. Substance		greatents		
Substance type	· Monc	-constituent		
	. Mone			
Name 1-Bromo-2,3,3,3-tetrafluoropropene		Product identifier (CAS No) 666-32-0	% <= 100	Classification (GHS-US) Skin Irrit. 2, H315
(Main constituent)		(CAS NO) 000-32-0	<= 100	Eye Irrit. 2A, H319
Full toxt of H phrases: and conting 16				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 on	se of accident or if you feel unwell, seek	modical advice i	mmodiately (about the label
riist-alu measures general		e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comfort	•	
	•	ation. Get medical advice/attention.		
First-aid measures after skin contact		with plenty of soap and water. Get med		
First-aid measures after eye contact		diately flush eyes thoroughly with water nt and easy to do. Continue rinsing. Get		
First-aid measures after ingestion		OT induce vomiting. Never give anything n out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effe	cts, both	acute and delayed		
Symptoms/injuries		nost important known symptoms and effe ind/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medica	l attentio			
4.3. Indication of any immediate medica Treat symptomatically.	Il attentio			
Treat symptomatically.	Il attentio			
Treat symptomatically. SECTION 5: Firefighting measures	I attentio			
Treat symptomatically.SECTION 5: Firefighting measures5.1.Extinguishing media		n and special treatment needed	owder Waterso	ray. Use extinguishing media
Treat symptomatically. SECTION 5: Firefighting measures	: Alcoh		owder. Water sp	ray. Use extinguishing media
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6.2. Environmental precautions		
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.	
.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		
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, including	g 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

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. Systems under pressure should be regularily checked for leakage. Oxygen detectors should be used when asphyxiating 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 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.

: Store in dry, cool, well-ventilated area.

9.1.	Information on basic physical and	hemical properties
Physica	al state	: Liquid
Color		: No data available
Odor		: No data available
Odor th	reshold	: No data available
рН		: No data available
Melting	point	: No data available
Freezin	g point	: No data available
Boiling	point	: 32 - 34 °C
Flash p	oint	: No data available
Relative	e evaporation rate (butyl acetate=1)	: No data available

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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	: 192.94 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 add	itional 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	itional 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 Respiratory or skin sensitization Germ cell mutagenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure)	 Not classified Not classified May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) Aspiration hazard	: Not classified
Aspiration nazara	

SECTIC	N 12: Ecological information
12.1.	Toxicity
No additic	nal information available

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12.2.	Persistence and degradability
No addit	ional information available
12.3.	Bioaccumulative potential
No addit	ional information available
12.4.	Mobility in soil
No addit	ional information available
12.5.	Other adverse effects
No addit	ional 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 informatio	n	

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:

1-Bromo-2,3,3,3-tetrafluoropropene	CAS No 666-32-0	100%

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

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

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Full tex	t 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		
NFPA 1	health hazard: 3 - Short exposure could cause residual injury even though pron given.fire hazard: 0 - Materials that will not burn.reactivity: 0 - Normally stable, even under and are not reactive with water.		n prompt medical attention was urn. under fire exposure conditions,		
HMIS I	II Rating				
Health		: 2 Moderate Hazard - Temporary or minor injury may occur			
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn			
Physica	al		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.