

3-Bromo-3,3-difluoropropene Safety Data Sheet 1300B06 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/21/2016 Version: 1.0

SECTION 1: Identification	
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1.1. Identification	
Product form	: Substance
Substance name	: 3-Bromo-3,3-difluoropropene
CAS No	: 420-90-6
Product code	: 1300-B-06
Formula	: C3H3BrF2
Other means of identification	: MFCD00042185
	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	ixture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatSTOT SE 3H335 - May cause respiratory irriFull 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)	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling 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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ccording to Federal Register / Vol. 77, No. 58 / Monda	y, March 26	2012 / Rules and Regulations		
.3. Other hazards				
lo additional information available				
4. Unknown acute toxicity (GHS US)				
ot applicable				
ECTION 3: Composition/informati	on on in	gredients		
1. Substance				
ubstance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
3-Bromo-3,3-difluoropropene (Main constituent)		(CAS No) 420-90-6	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16		•		·,
2. Mixture				
ot applicable				
ECTION 4: First aid measures				
1. Description of first aid measures				
rst-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel		
rst-aid measures after inhalation	: Rem	by person to fresh air and keep comfortation. Get medical advice/attention.	•	
rst-aid measures after skin contact	•	with plenty of soap and water. Get med	ical advice/atten	tion.
rst-aid measures after eye contact	: Imme	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	for at least 15 m	inutes. Remove contact lenses, if
irst-aid measures after ingestion		OT induce vomiting. Never give anything hout with water. Get medical advice/atte		unconscious person. Rinse
2. Most important symptoms and effe	ects. both	acute and delaved		
ymptoms/injuries	: The r	nost important known symptoms and effe	ects are describe	ed in the labelling (see section
.3. Indication of any immediate medic	al attentio	n and special treatment needed		
reat symptomatically.				
ECTION 5: Firefighting measures				
.1. Extinguishing media				
uitable extinguishing media		nol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
2. Special hazards arising from the s	ubstance	or mixture		
ire hazard	: Ther	nal decomposition generates: Carbon ox	ides. Hydrogen	bromide. Hydrogen fluoride.
xplosion hazard		of explosion if heated under confinement iners.	. Use water spra	ay or fog for cooling exposed
3. Advice for firefighters				
irefighting instructions	: In ca	se of fire: Evacuate area. Fight fire remot	tely due to the ris	sk of explosion.
rotection during firefighting		gas tight chemically protective clothing i ratus. For further information refer to sec		
ECTION 6: Accidental release mea				
1. Personal precautions, protective e				
eneral measures		uate unnecessary personnel. Ensure ade r or spray.	equate air ventila	ation. Do not breathe gas, fumes,
1.1. For non-emergency personnel				
mergency procedures	: Only	qualified personnel equipped with suitab	le protective equ	lipment may intervene.
1.2. For emergency responders				
rotective equipment		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
mergency procedures		vapor heavier than air. May accumulate i	•	es, particularly at or below ground
2/06/2016		nlish LIS)	SDS ID: 1300B06	2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental precautions	
Avoid release to the environment. Notify a	uthorities if product enters sewers or public waters.
6.3. Methods and material for cont	ainment 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 stora	ge
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 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, in	cluding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Storage temperature

Storage area

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.

: 2 - 8 °C Use explosion proof refrigerator

: Store in dry, well-ventilated area.

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
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 42 °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
12/06/2016	ENI (English LIS)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.543 g/ml (@ 25 °C)
Molecular mass	: 156.96 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	
Refractive index	: 1.3773 (@ 25 °C)

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
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong I	bases. 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.

SECT	ION 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

CECTION 40.	Easteriast information	
SECTION 12:	Ecological information	

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.0			
12.3.	Bioaccumulative potential		
No addit	tional information available		
12.4.	Mobility in soil		
	tional information available		
No addit	tional information available		
12.5.	Other adverse effects		
No addit	tional information available		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations Additional information

- Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
 Dispose of contents/container in accordance with licensed collector's sorting instructions.
- disposal recommendations : Dispose of c
 - : Recycle the material as far as possible.
- **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:

3-Bromo-3,3-difluoropropene	CAS No 420-90-6	100%	
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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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 f	nealth hazard ire hazard reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 0 - Materials that will not burn. : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating		
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.