

# **6-Bromo-2,2,3,3-tetrafluoro-1,4-benzodioxane** Safety Data Sheet 2H10B12 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/13/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 6-Bromo-2,2,3,3-tetrafluoro-1	4-benzodioxane	
CAS No	: 141872-90-4		
Product code	: 2H10-B-12		
Formula	: C8H3BrF4O2		
Synonyms	: 6-Bromo-2,2,3,3-tetrafluoro-1	4-benzodioxane	
Other means of identification	: MFCD00236309		
1.2. Relevant identified uses of the su	bstance or mixture and uses advi	sed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and devel	opment	
1.3. Details of the supplier of the safe	ty 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			
0 7 1	: (844) 523-4086 (3E Company	( Account 10060)	
Emergency number	: (644) 523-4066 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identification	n		
2.1. Classification of the substance of			
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irriEye Irrit. 2AH319 - Causes seriousSTOT SE 3H335 - May cause respFull text of H-phrases: see section 16	eye irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	CHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	<ul> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye ir</li> <li>H335 - May cause respiratory</li> </ul>		
Precautionary statements (GHS-US)	P301+P312 - If swallowed: C P302+P352 - If on skin: Wasl P304+P340 - If inhaled: Rem P305+P351+P338 - If in eyes lenses, if present and easy to P312 - Call a POISON CENT P321 - Specific treatment (se P330 - Rinse mouth	after handling hoke when using this product in a well-ventilated area s/protective clothing/eye protection/face protect all a POISON CENTER or doctor/ physician if y with plenty of soap and water bye person to fresh air and keep comfortable fo : Rinse cautiously with water for several minute	ou feel unwell r breathing s. Remove contact
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	P337+P313 - If eye irrita P362+P364 - Take off co P403+P233 - Store in a P405 - Store locked up P501 - Dispose of conte	ontaminated clothing and well-ventilated place. Kee	l wash it befe ep container	ore reuse tightly closed	
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (Gł	HS US)				
Not applicable					
SECTION 3: Composition/info	ormation on ingredients				
3.1. Substance					
Substance type	: Mono-constituent				
Name	Product identifie	er %	, 0	Classification (GHS-U	S)
6-Bromo-2,2,3,3-tetrafluoro-1,4-benzodioxa (Main constituent)	ane (CAS No) 141872-90	-4 <=	= 100	Acute Tox. 4 (Oral), H302 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 measure					
4.1. Description of first aid mea					
First-aid measures general	where possible). Move th	ne affected personnel aw	ay from the		
First-aid measures after inhalation	respiration. Get immedia	te medical advice/attenti	on.	ng. If not breathing, give ar	tificial
First-aid measures after skin contact	: Wash with plenty of soar				
First-aid measures after eye contact	: Immediately flush eyes t present and easy to do.			ninutes. Remove contact le dical advice/attention.	enses, il
First-aid measures after ingestion	: Do NOT induce vomiting	•	mouth to ar	n unconscious person. Rins	se
4.2. Most important symptoms	and effects, both acute and delayed	1			
Symptoms/injuries	: The most important know 2.2) and/or in section 11		s are describ	ed in the labelling (see see	ction
4.3. Indication of any immediate	e medical attention and special trea	tment needed			
Treat symptomatically.					
SECTION 5: Firefighting meas	sures				
5.1. Extinguishing media					
Suitable extinguishing media	: Alcohol resistant foam. C appropriate for surround		der. Water s	pray. Use extinguishing me	edia
5.2. Special hazards arising from	m the substance or mixture				
Fire hazard	: Thermal decomposition	generates: Carbon oxide	s. Hydrogen	bromide. Hydrogen fluorid	le.
Explosion hazard	: Risk of explosion if heate containers.	ed under confinement. Us	se water spr	ay or fog for cooling expos	ed
5.3. Advice for firefighters					
Firefighting instructions	: In case of fire: Evacuate	area. Fight fire remotely	due to the r	isk of explosion.	
Protection during firefighting				with self contained breathir re controls/personal protec	
SECTION 6: Accidental releas	se measures				
6.1. Personal precautions, prote	ective equipment and emergency p	ocedures			
General measures	: Evacuate unnecessary p vapor or spray.	ersonnel. Ensure adequa	ate air ventil	ation. Do not breathe gas,	fumes,
6.1.1. For non-emergency person	nnel				
Emergency procedures	: Only qualified personnel	equipped with suitable p	protective eq	uipment may intervene.	
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6.1.2.	For emergency responders	
Protecti	ve equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emerge	ncy procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions	
Avoid re	elease to the environment. Notify author	rities if product enters sewers or public waters.
6.3.	Methods and material for contain	nent and cleaning up
For con	tainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods	s 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 in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No addi	tional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions 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	emeasures	: 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
Technic	al measures	: Comply with applicable regulations.
Storage	conditions	: Keep container closed when not in use.
Incompa	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	area	: Store in dry, cool, well-ventilated area. Light sensitive.

SECTION 8: E>	posure controls	personal	protection
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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.
I	Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
l	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.
I	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: Ph	ysical and chemica	al properties
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9.1. Information on basic physical and	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	: No data available
Flash point	: No data available
Relative 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	: 287.006 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

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame.
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	: Oral: Harmful if swallowed.
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

SECTIO	DN 12: Ecological information
12.1.	Toxicity
No additio	onal 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 information	on	

#### 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:

6-Bromo-2,2,3,3-tetrafluoro-1,4-benzodioxane CAS No 141872-90-4 100%

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 text of H-phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
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
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard NFPA fire hazard NFPA reactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
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.