

**4-Bromo-2-fluorophenylacetylene** Safety Data Sheet 1900BX5 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/25/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-Bromo-2-fluorophenylacetylene
CAS No	: 302912-33-0
Product code	: 1900-B-X5
Formula	: C8H4BrF
Synonyms	: 4-Bromo-1-ethynyl-2-fluorobenzene
Other means of identification	: MFCD02683523
	ance or mixture and uses advised against
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Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safety of	lata 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	1
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)	
Acute Tox. 4 (Oral)H302 - Harmful if swAcute Tox. 4 (Dermal)H312 - Harmful in coAcute Tox. 4 (Inhalation)H332 - Harmful if inhSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serioSTOT SE 3H335 - May cause re	ntact with skin haled irritation rus eye irritation
Full 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)	<ul> <li>H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> </ul>
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	P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: 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			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informat	ion on in	gredients		
3.1. Substance				
Substance type	: Mono	-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Bromo-2-fluorophenylacetylene (Main constituent)		(CAS No) 302912-33-0	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 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 measures				
4.1. Description of first aid measures		o of accident or if you feel your	II. a a alterna di a al a duit	a immediately (about the label
First-aid measures general		se of accident or if you feel unwe possible). Move the affected pe		
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
First-aid measures after skin contact		with plenty of soap and water. O		
First-aid measures after eye contact	prese	nt and easy to do. Continue rinsi	ng. Get immediate m	
First-aid measures after ingestion	mouth	OT induce vomiting. Never give a nout with water. Get immediate r		
4.2. Most important symptoms and ef		-		
Symptoms/injuries		nost important known symptoms nd/or in section 11.	and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate medi	cal attentio	n and special treatment neede	d	
Treat symptomatically.				
SECTION 5: Firefighting measures	;			
5.1. Extinguishing media				
Suitable extinguishing media		ol resistant foam. Carbon dioxide priate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the	substance o	or mixture		
Fire hazard	: Thern	nal decomposition generates: Ca	arbon oxides. Hydrog	en bromide. Hydrogen fluoride.
5.3. Advice for firefighters				
Firefighting instructions		se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective c atus. For further information refe		n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release me	asures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
General measures	: Evacu	uate unnecessary personnel. Ens	sure adequate air ver	tilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only o	qualified personnel equipped witl	h suitable protective	equipment may intervene.
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6.1.2. For emergency respond	ers			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precaution	ons			
Avoid release to the environment. N	lotify authorities if product enters sewers or public waters.			
6.3. Methods and material for	8. Methods and material for containment and cleaning up			
For containment	: Stop leak if safe to do so.			
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.			
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".			
6.4. Reference to other sect	ions			
No additional information available				
SECTION 7: Handling and	storage			
7.1. Precautions for safe ha				
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 dust, mist, spray. 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 stor	age, including any incompatibilities			
Technical measures	: Comply with applicable regulations.			
Storage conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.			
Incompatible materials	: Refer to Section 10 on Incompatible Materials.			
Storage temperature	: 2 - 8 °C Use explosion proof refrigerator			
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Storage area : Store in dry, cool, well-ventilated area. Light sensitive.

# **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**

9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
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
Flammability (solid, gas)	: No data available
Explosion limits	: No data available

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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	: 199.02 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: Stabilit	ty and reactivi	ty

### 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.

SECTI	ON 11: Toxicological informati	on
11.1.	Information on toxicological effects	
Acute to:	xicitv	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

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

SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available

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	y in soil
No additional info	
	rmation available
12.5. Other a	adverse effects

# 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.
  - : 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:

4-Bromo-2-fluorophenylacetylene	CAS No 302912-33-0	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

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Full text of H-phrases:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
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
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment given
Flammability	: 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)

: 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)

Physical

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.