

5-Bromo-2-fluorostyrene Safety Data Sheet 1900B16 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/25/2017 Version: 1.0

1. Identification	
roduct form	: Substance
ubstance name	: 5-Bromo-2-fluorostyrene
AS No	: 221030-92-8
roduct code	: 1900-B-16
ormula	: C8H6BrF
ynonyms	: 4-Bromo-2-ethenyl-1-fluorobenzene
ther means of identification	: MFCD20384566
2. Relevant identified uses of the	substance or mixture and uses advised against
se of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
3. Details of the supplier of the sa	fety data sheet
ynQuest Laboratories, Inc. O. Box 309 achua, FL 32615 - United States of Ameri (386) 462-0788 - F (386) 462-7097 fo@synquestlabs.com - www.synquestlab	
4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
kin Irrit. 2 H315 - Causes skin irritatior ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirato ull text of H-phrases: see section 16	irritation
ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirato ull text of H-phrases: see section 16 2. Label elements	irritation
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2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS U	JS)		
Not applicable			
SECTION 3: Composition/inform	nation on ingredients		
3.1. Substance	<u> </u>		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
5-Bromo-2-fluorostyrene (Main constituent)	(CAS No) 221030-92-8	<= 100	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 measur			
First-aid measures general	where possible). Move the	a feel unwell, seek medical advic affected personnel away from th	e contaminated area.
First-aid measures after inhalation	respiration. Get medical ad	vice/attention.	hing. If not breathing, give artificial
First-aid measures after skin contact		nd water. Get medical advice/at	
First-aid measures after eye contact	present and easy to do. Co	ntinue rinsing. Get medical advi	
First-aid measures after ingestion	mouth out with water. Get r	lever give anything by mouth to nedical advice/attention.	an unconscious person. Rinse
4.2. Most important symptoms and	offacts both acute and delayed		
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Symptoms/injuries		symptoms and effects are desc	ribed in the labelling (see section
	: The most important known 2.2) and/or in section 11.		ribed in the labelling (see section
	: The most important known		ribed in the labelling (see section
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<ul> <li>4.3. Indication of any immediate me Treat symptomatically.</li> <li>SECTION 5: Firefighting measure</li> <li>5.1. Extinguishing media</li> <li>Suitable extinguishing media</li> <li>5.2. Special hazards arising from the Fire hazard</li> <li>5.3. Advice for firefighters</li> <li>Firefighting instructions</li> <li>Protection during firefighting</li> <li>SECTION 6: Accidental release to 6.1. Personal precautions, protection</li> <li>General measures</li> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders</li> <li>Protective equipment</li> </ul>	<ul> <li>The most important known 2.2) and/or in section 11.</li> <li>edical attention and special treatment of the substance or mixture</li> <li>Alcohol resistant foam. Car appropriate for surrounding the substance or mixture</li> <li>Thermal decomposition generation if heated containers.</li> <li>In case of fire: Evacuate arres Wear gas tight chemically proparatus. For further informeasures</li> <li>Evacuate unnecessary personal vapor or spray.</li> <li>Only qualified personnel economic of the substance or section 8: "Exposure</li> </ul>	ent needed bon dioxide. Dry powder. Water fire. nerates: Carbon oxides. Hydroge under confinement. Use water s ea. Fight fire remotely due to the protective clothing in combination mation refer to section 8: "Expose cedures sonnel. Ensure adequate air ver quipped with suitable protective eq re controls/personal protection".	spray. Use extinguishing media en bromide. Hydrogen fluoride. pray or fog for cooling exposed e risk of explosion. n with self contained breathing sure controls/personal protection".

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6.2. Environmental precautions			
Avoid release to the environment. Notify authorities if product enters sewers or public waters.			
6.3. Methods and material for contain	ment and cleaning up		
For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate materi			
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			
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, inclu	ding 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.		

- : Refer to Section 10 on Incompatible Materials.
- Storage temperature : 2 - 8 °C Use explosion proof refrigerator Storage area : Store in dry, well-ventilated 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.
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	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
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
0.4/05/00.4F	

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Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Molecular mass	:	201.04 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

### **Other information** 9.2.

No additional information available

SECT	ON 10: Stability and reactivity		
10.1.	Reactivity		
No additional 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	tional information available		
10.4.	Conditions to avoid		
Keep av	vay 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.

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

12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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 inform	tion

5-Bromo-2-fluorostyrene	CAS No 221030-92-8	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

Full text 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

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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	: 2 Moderate Hazard - Temporary or minor injury may occur
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.