

Safety Data Sheet 3639FX0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/18/2019 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 5-Bromo-2-fluorophenylhydrazine hydrochloride
CAS No	: 214916-08-2
Product code	: 3639-F-X0
Formula	: C6H7BrCIFN2
Other means of identification	: MFCD03094411
1.2. Relevant identified uses of the subs	stance 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	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	m
1.4. Emergency telephone number	<u></u>
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
	. (044) 020 4000 (02 00 mpany / 10000 m 10000)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	nixture
Classification (GHS-US)	
Acute Tox. 4 (Oral)H302 - Harmful if swAcute Tox. 4 (Dermal)H312 - Harmful in crAcute Tox. 4 (Inhalation)H332 - Harmful if inSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes serieSTOT SE 3H335 - May cause r	ontact with skin haled i irritation ous 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> <li>P330 - Rinse mouth</li> </ul>
02/18/2019	EN (English US) SDS ID: 3639FX0 Page 1

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

	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/information	on on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
5-Bromo-2-fluorophenylhydrazine hydrochloride (Main constituent)		(CAS No) 214916-08-2	<= 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		•	ŀ	
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unw e possible). Move the affected p		
First-aid measures after inhalation	respi	ration. Get immediate medical a	dvice/attention.	thing. If not breathing, give artificial
First-aid measures after skin contact		n with plenty of soap and water.		
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion		OT induce vomiting. Never give h out with water. Get immediate		
4.2. Most important symptoms and effe				
Symptoms/injuries		most important known symptom and/or in section 11.	s and effects are desc	cribed in the labelling (see section
4.3. Indication of any immediate medic Treat symptomatically.	al attentic	on and special treatment need	ed	
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxid opriate for surrounding fire.	de. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
Fire hazard	: Ther Hydr	mal decomposition generates: C ogen fluoride. Nitrogen oxides.	arbon oxides. Hydrog	gen bromide. Hydrogen chloride.
5.3. Advice for firefighters				
Firefighting instructions	: In ca	se of fire: Evacuate area.		
Protection during firefighting		r gas tight chemically protective ratus. For further information rel		on with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release mea	asures			
6.1. Personal precautions, protective e		and emergency procedures		
General measures		uate unnecessary personnel. Er	nsure adequate air ve	ntilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped w	th suitable protective	equipment may intervene.
02/18/2019	EN (En	glish US)	SDS ID: 3639	FX0 2/6

Safety Data Sheet

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

6.1.2. For emergency responde	rs
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 precautio	ns
Avoid release to the environment. No	tify authorities if product enters sewers or public waters.
6.3. 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 section	ns
No additional information available	
SECTION 7: Handling and s	torano
7.1. Precautions for safe hand	5
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 stora	ge, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Air sensitive. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

Storage area : Store in dry, 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 chemical properties Physical state : Solid Color : No data available Odor : No data available Odor threshold : No data available pН : No data available : No data available Melting point : No data available Freezing point : No data available **Boiling point** Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available

Explosive properties

Explosion limits

Flammability (solid, gas)

: No data available

: No data available

: No data available

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

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	: 241.489 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				
Bases. 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.				

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

**SECTION 11: Toxicological information** 

Information on toxicological effects 11.1.

### Acute toxicity

SECT	ION 12: Ecological information	n		
12.1.	Toxicity			
No addi	tional information available			
12.2.	Persistence and degradability			
No addi	tional information available			
12.3.	Bioaccumulative potential			
No additional information available				
02/18/20	19	EN (English US)	SDS ID: 3639FX0	4/6

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

#### 12.4. **Mobility in soil**

### No additional information available

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	15	
13.1.         Waste treatment methods           Waste treatment methods         Image: Comparison of Co	: Remove to an authorized incinerator equipped with a	an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with lice	ensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information		
Department of Transportation (DOT)		
n 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 informatio	1	
5.1. US Federal regulations		
All components of this product are listed, or ex Substances Control Act (TSCA) inventory exce	cluded from listing, on the United States Environmental F	Protection Agency Toxic
5-Bromo-2-fluorophenylhydrazine hydrochloric		100%
	c chemical or chemicals in excess of the applicable de m ements of section 313 of Title III of the Superfund Amenc	
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**

NFPA health hazard

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

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

: 3 - Short exposure could cause serious temporary or

	residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
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 is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

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.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.