

2-Bromo-4-fluorothiophenol Safety Data Sheet 5661B00 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/15/2015 Version: 1.0

SECTION 1: Identification	
.1. Identification	
	: Substance
	2-Bromo-4-fluorothiophenol
	: 773853-92-2
	: 5661-B-00
	: C6H4BrFS
<i></i>	: 2-Bromo-4-fluorobenzenethiol
	: MFCD09475472
	ance or mixture and uses advised against
Ise of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the safety da	ata sheet
SynQuest Laboratories, Inc. P.O. Box 309 Jachua, FL 32615 - United States of America (386) 462-0788 - F (386) 462-7097 <u>ifo@synquestlabs.com</u> - <u>www.synquestlabs.com</u> .4. Emergency telephone number	
0 7 1	: (844) 523-4086 (3E Company - Account 10069)
mergency number	. (644) 323-4000 (3E Company - Account 10009)
SECTION 2: Hazard(s) identification	
.1. Classification of the substance or mix	xture
Classification (GHS-US)	
EventH319 - Causes serious eyeAnticipationH319 - Causes serious eyeAnticipationH335 - May cause respirateFull text of H-phrases: see section 16	
.2. Label elements	
GHS-US labeling	
lazard pictograms (GHS-US)	: GHS07
ignal word (GHS-US)	: Warning
	 H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
recautionary statements (GHS-US)	: P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling
	 P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention

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		P362 P403 P405	+P313 - If eye irritation persists: Get med +P364 - Take off contaminated clothing a +P233 - Store in a well-ventilated place. I - Store locked up - Dispose of contents/container to an ap	and wash it before Keep container	ore reuse tightly closed
2.3.	Other hazards				
Other ha	5	Stend	sh.		
2.4.	Unknown acute toxicity (GHS US)				
lot appl	icable				
SECTI	ON 3: Composition/information	on in	gredients		
.1.	Substance				
Substan	ce type :	Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
2-Bromo (Main cor	p-4-fluorothiophenol nstituent)		(CAS No) 773853-92-2	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text	of H-phrases: see section 16				·
.2.	Mixture				
lot appl					
SECTI	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid	measures general :		se of accident or if you feel unwell, seek r e possible). Move the affected personnel		
irst-aid	measures after inhalation :		ove person to fresh air and keep comforta ration. Get immediate medical advice/atte		ng. If not breathing, give artificial
			with plenty of soap and water. Get imme		
	,	prese	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.		
irst-aid	measures after ingestion :	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
.2.	Most important symptoms and effects				
Symptor	ns/injuries :		nost important known symptoms and effe and/or in section 11.	cts are describ	ed in the labelling (see section
.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
reat sy	mptomatically.				
SECTI	ON 5: Firefighting measures				
.1.	Extinguishing media				
Suitable	extinguishing media :		ol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water s	pray. Use extinguishing media
.2.	Special hazards arising from the subs	tance o	or mixture		
ire haza	ard :		nal decomposition generates: Carbon oxi r oxides.	des. Hydrogen	bromide. Hydrogen fluoride.
Ixplosio	n hazard :	Risk o conta	of explosion if heated under confinement. iners.	Use water spr	ay or fog for cooling exposed
.3.	Advice for firefighters				
irefight	ing instructions :	In cas	se of fire: Evacuate area. Fight fire remote	ely due to the r	isk of explosion.
Protection during firefighting :		Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".			
SECTI	ON 6: Accidental release measu	res			
.1.	Personal precautions, protective equip	oment	and emergency procedures		
General		Evac	uate unnecessary personnel. Ensure ade or spray.	quate air ventil	ation. Do not breathe gas, fumes,

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6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up		
: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.		
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.		
: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		

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, including	ng 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 area	: Store in dry, cool, 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 a	and chemical properties
	sic 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

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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
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 207.06 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 bases. 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

Information on toxicological effects 11.1.

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

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SECTION 12: Ecological information			
12.1.	Toxicity		
No add	itional information available		
12.2.	Persistence and degradability		
No additional information available			
12.3.	Bioaccumulative potential		
No additional information available			
12.4.	Mobility in soil		
No add	itional information available		
12.5.	Other adverse effects		
No add	itional 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.			

Department of Transportation (DOT)

SECTION 14: Transport information

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:

2-Bromo-4-fluorothiophenol	CAS No 773853-92-2	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

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SECTION 16: Other information

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

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.