

3-Bromo-4-fluorothiophenol

Safety Data Sheet 5661B02 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			
1.1. Identification			
Product form	: Substance		
Substance name	: 3-Bromo-4-fluorothiophen		
CAS No	: 942473-85-0		
Product code	: 5661-B-02		
ormula	: C6H4BrFS		
Synonyms	: 3-Bromo-4-fluorobenzene	hiol	
Other means of identification	: MFCD09475474		
.2. Relevant identified uses of the s	substance or mixture and uses a	dvised against	
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substance Scientific research and de		
.3. Details of the supplier of the sat	fety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlab</u>			
I.4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Comp	any - Account 10069)	
SECTION 2: Hazard(s) identificat	ion		
2.1. Classification of the substance	or mixture		
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin i Eye Irrit. 2A H319 - Causes serior STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16	us eye irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H302 - Harmful if swallow H315 - Causes skin irritat H319 - Causes serious ey H335 - May cause respira	on e irritation	
Precautionary statements (GHS-US)	P271 - Use only outdoors P280 - Wear protective gl P301+P312 - If swallowee P302+P352 - If on skin: W P304+P340 - If inhaled: R P305+P351+P338 - If in e lenses, if present and eas P312 - Call a POISON CE P321 - Specific treatment P330 - Rinse mouth	hly after handling r smoke when using this product or in a well-ventilated area oves/protective clothing/eye protection/face protectio : Call a POISON CENTER or doctor/ physician if yo ash with plenty of soap and water emove person to fresh air and keep comfortable for yes: Rinse cautiously with water for several minutes	u feel unwell breathing a. Remove contact
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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. - Store locked up - Dispose of contents/container to an ap	ind wash it befo Keep container	ore reuse tightly closed
2.3.	Other hazards				
Other ha	5	Stend	sh.		
2.4.	Unknown acute toxicity (GHS US)				
lot appli	cable				
SECTIO	ON 3: Composition/information	on in	gredients		
.1.	Substance				
Substand	ce type	Mond	-constituent		
Name			Product identifier	%	Classification (GHS-US)
3-Bromo (Main con	-4-fluorothiophenol stituent)		(CAS No) 942473-85-0	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of	of H-phrases: see section 16				· · · · · · · · · · · · · · · · · · ·
.2.	Mixture				
lot appli	cable				
ECTI	ON 4: First aid measures				
.1.	Description of first aid measures				
irst-aid	5	where	se of accident or if you feel unwell, seek r e possible). Move the affected personnel	away from the	contaminated area.
irst-aid		respii	ove person to fresh air and keep comforta ation. Get immediate medical advice/atte	ntion.	
			with plenty of soap and water. Get imme		
		prese	ediately flush eyes thoroughly with water f ent and easy to do. Continue rinsing. Get	immediate med	lical advice/attention.
		: 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				
ymptom	/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
.3. Treat syr	Indication of any immediate medical a nptomatically.	ttentio	n and special treatment needed		
SECTIO	ON 5: Firefighting measures				
.1.	Extinguishing media				
uitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	wder. Water sp	oray. Use extinguishing media
.2.	Special hazards arising from the subs	tance	or mixture		
ïre haza	ard		nal decomposition generates: Carbon ox r oxides.	des. Hydrogen	bromide. Hydrogen fluoride.
xplosio	n hazard :		of explosion if heated under confinement. iners.	Use water spra	ay or fog for cooling exposed
.3.	Advice for firefighters				
-	•		se of fire: Evacuate area. Fight fire remot	•	•
Protectio	n during firefighting		gas tight chemically protective clothing in ratus. For further information refer to sect		
ECTI	ON 6: Accidental release measu	ires			
.1.	Personal precautions, protective equi	pment	and emergency procedures		
General	measures		uate unnecessary personnel. Ensure ade r or spray.	quate air ventila	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.

nent 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".		
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, incl	Conditions for safe storage, 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 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 and	d chemical properties
	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

SECT	ON 10: Stability and reactivity			
10.1.	Reactivity			
No addi	tional information available			
10.2.	Chemical stability			
The pro	duct 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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SECT	ON 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
	tional 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:

3-Bromo-4-fluorothiophenol	CAS No 942473-85-0	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.