

1-Bromo-4-fluoronaphthalene Safety Data Sheet 1600B44 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/01/2019 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 1-Bromo-4-fluoronaphthalene		
CAS No	: 341-41-3		
Product code	1600-В-44		
Formula	: C10H6BrF		
Other means of identification	: MFCD00051473		
1.2. Relevant identified uses of the subst	tance 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 of	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	<u>n</u>		
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)			
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irrit 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)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation		
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection 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) 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 		

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2.3.	Other hazards				
	No additional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app					
SECT	ION 3: Composition/information	on in	gredients		
3.1.	Substance				
Substan	ice type	Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	o-4-fluoronaphthalene nstituent)		(CAS No) 341-41-3	<= 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 app					
SECT	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	I measures general :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid	I measures after inhalation :		ve person to fresh air and keep comforta ation. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid	measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
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 medical advice/attention.					
First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.					
4.2. Most important symptoms and effects, both acute and delayed					
Symptor	ms/injuries :		nost important known symptoms and effe nd/or in section 11.	cts are describe	ed in the labelling (see section
4.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media :		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the subs	tance o	or mixture		
Fire haz	ard :	Thern	nal decomposition generates: Carbon oxi	des. Hydrogen	bromide. Hydrogen fluoride.
5.3.	Advice for firefighters				
Firefight	ing instructions :	In cas	e of fire: Evacuate area.		
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".					
SECT	ION 6: Accidental release measu	res			
6.1.	Personal precautions, protective equi		and emergency procedures		
	measures :	Evacu	uate unnecessary personnel. Ensure ade ne gas, fumes, vapor or spray.	quate air ventila	tion. Do not breathe dust. Do not
6.1.1.	For non-emergency personnel				
Emerge	ncy procedures :	Only	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.
6.1.2.	For emergency responders				
Protectiv	ve equipment :		t attempt to take action without suitable p o section 8: "Exposure controls/personal		ment. For further information
6.2.	Environmental precautions				

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

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6.3.	Methods and material for containme	nt and cleaning up	
For cont	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods for cleaning up		Minimize generation of dust. 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 in	formation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4.	Reference to other sections		
No addit	ional information available		
SECT	ON 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 dust, 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, includ	ing any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
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 chemica	properties	
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Appearance	: Low melting solid.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: 33 - 37 °C	
Freezing point	: No data available	
Boiling point	: 110 - 115 °C (@ 2 mm Hg)	
Flash point	: >110 °C	
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	
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Relative vapor density at 20 °C	: No data available
Molecular mass	: 225.057 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

10.1.	Reactivity
No add	itional information available
10.2.	Chemical stability
The pro	oduct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No add	itional information available
10.4.	Conditions to avoid
Keep a	way from heat, sparks and flame.
10.5.	Incompatible materials
-	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			
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		

SECT	ON 12: Ecological information
12.1.	Toxicity
No addit	ional information available
12.2.	Persistence and degradability
No addi	ional information available
12.3.	Bioaccumulative potential
No addi	ional information available
12.4.	Mobility in soil
No addi	ional information available

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns
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	

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

1-Bromo-4-fluoronaphthalene CAS No 341-41-3 100%	Substances Control Act (TSCA) Inventory exception.		
	1-Bromo-4-fluoronaphthalene	CAS No 341-41-3	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	 O - 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	: 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)	
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.