

Safety Data Sheet 1700B03 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/14/2016 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2-Bromo-4-fluorotoluene		
CAS No	: 1422-53-3		
Product code	: 1700-B-03		
Formula	: C7H6BrF		
Other means of identification	: MFCD00040828		
1.2. Relevant identified uses of the subst	ance or mixture and uses advis	ed against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develo	pment	
1.3. Details of the supplier of the safety d	lata 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 1.4. Emergency telephone number	1		
Emergency number	: (844) 523-4086 (3E Company	- Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	ixture		
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritati 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)	 H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irr H335 - May cause respiratory 		
Precautionary statements (GHS-US)	P261 - Avoid breathing fumes P264 - Wash skin thoroughly P271 - Use only outdoors or ir P280 - Wear protective gloves P302+P352 - If on skin: Wash P304+P340 - If inhaled: Remo P305+P351+P338 - If in eyes: lenses, if present and easy to P312 - Call a POISON CENTE P321 - Specific treatment (see P332+P313 - If skin irritation c P337+P313 - If eye irritation p P362+P364 - Take off contam	after handling a well-ventilated area /protective clothing/eye protection/face protection with plenty of soap and water ve person to fresh air and keep comfortable for Rinse cautiously with water for several minutes	breathing . Remove contact

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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P403+P235 Store in a well-ventilated place. Keep cool
- 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 ingredients

3.1. **Substance**

Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Bromo-4-fluorotoluene (Main constituent)	(CAS No) 1422-53-3	<= 100	Flam. Liq. 4, H227 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 measures			
First-aid measures general	: In case of accident or if you fee where possible). Move the affe	cted personnel away from the	ne contaminated area.
First-aid measures after inhalation	respiration. Get medical advice	e/attention.	thing. If not breathing, give artificial
First-aid measures after skin contact	: Wash with plenty of soap and		
First-aid measures after eye contact	: Immediately flush eyes thoroug present and easy to do. Contin		5 minutes. Remove contact lenses, ice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Neve mouth out with water. Get med		an unconscious person. Rinse
4.2. Most important symptoms and e	ffects, both acute and delayed		
Symptoms/injuries	: The most important known syn 2.2) and/or in section 11.	nptoms and effects are desc	ribed in the labelling (see section
4.3. Indication of any immediate med	ical attention and special treatment	needed	
Treat symptomatically.			
SECTION 5: Firefighting measure	S		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbor appropriate for surrounding fire		r spray. Use extinguishing media
5.2. Special hazards arising from the	substance or mixture		
Fire hazard	: Thermal decomposition genera	ates: Carbon oxides. Hydrog	en bromide. Hydrogen fluoride.
Explosion hazard	: Risk of explosion if heated unc containers. May form flammab		spray or fog for cooling exposed e.
5.3. Advice for firefighters			
Firefighting instructions	: In case of fire: Evacuate area.	Fight fire remotely due to the	e risk of explosion.
Protection during firefighting	: Wear gas tight chemically prot apparatus. For further informat		n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release m	easures		
6.1. Personal precautions, protective	equipment and emergency proced	ures	
General measures	: Evacuate unnecessary person vapor or spray.	nel. Ensure adequate air ver	ntilation. Do not breathe gas, fumes
6.1.1. For non-emergency personnel			
Emorgonov proceduros	· Only qualified personnal equip	nod with quitable protective	aquipment may intervene

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: Only qualified personnel equipped with suitable protective equipment may intervene.

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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. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.	
6.2. Environmental precautions		
Avoid release to the environment. Notify author	prities 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 material.	
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		
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.	
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. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
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 away from ignition sources.	
Incompatible materials : Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.	

SECTIC	DN 8: Exposure controls/personal protection
8.1.	Control parameters
No additio	onal 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.

formation on basic physical and chemical properties	
: Liquid	
: No data available	
	 Liquid No data available

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Boiling point	: 170 - 172 °C
Flash point	: 64 °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
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.526 g/ml (@ 20 °C)
Molecular mass	: 189.03 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	
Refractive index	: 1.528 (@ 20 °C)
SECTION 10: Stability and reactivity	ty .
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	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 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	tion		
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		
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SECT	ION 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 additional information available		
12.4.	Mobility in soil	
No addi	tional information available	
12.5.	Other adverse effects	
No additional information available		

SECTION 13: Disposal consideration 13.1. Waste treatment methods	S
Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	 NA1993 Combustible liquid, n.o.s. 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 III - Minor Danger 203 241 D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table
DOT Packaging Exceptions (49 CFR 173.xxx)	 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea No additional information available	

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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-fluorotoluene CAS No 1422-53-3	
	0%

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:

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Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature 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	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.