



Reviewed on 03/22/2012
1 Identification
Product identifier Product name: <b>5-Bromo-2-methoxypyridine-3-boronic acid</b>
Stock number: H52678
CAS Number: 850864-59-4
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com
Information Department: Health, Safety and Environmental Department Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. <b>Hazards not otherwise classified</b> No information known.
Hazards not otherwise classified No information known.         Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS07
Signal word Warning Hazard statements
H315 Causes skin irritation. H319 Causes serious eye irritation.
H335 May cause respiratory irritation. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D2B - Toxic material causing other toxic effects
$\overline{\mathbf{T}}$
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
PRE     Flammability = 1       REACTIVITY     Physical Hazard = 1
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable.
vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
850864-59-4 5-Bromo-2-methoxypyridine-3-boronic acid
4 First-aid measures Description of first aid measures
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contract
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After swallowing Seek medical treatment.
After Swanowing Seek medical treatment. (Contd. on page 2) USA

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Product name: 5-Bromo-2-methoxyp	byriaine-s-doronic acia		
Information for doctor		(Contd. of page 1)	
Most important symptoms and effects	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.		
-	and and openal deallent needed no failler relevant information available.		
5 Fire-fighting measures			
Extinguishing media Suitable extinguishing agents Carbon	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.		
Special hazards arising from the subs If this product is involved in a fire, the for	stance or mixture		
Carbon monoxide and carbon dioxide			
Nitrogen oxides (NOx) Hydrogen bromide (HBr)			
Boron oxide Advice for firefighters			
<b>Protective equipment:</b> Wear self-contained respirator.			
Wear fully protective impervious suit.			
6 Accidental release measures			
Personal precautions, protective equi	ipment and emergency procedures		
Wear protective equipment. Keep unprotected persons away.			
Environmental precautions: Do not all Methods and material for containmen	low material to be released to the environment without proper governmental permits. It and cleaning up: Ensure adequate ventilation.		
Prevention of secondary hazards: No Reference to other sections	special measures required.		
See Section 7 for information on safe ha	andling		
See Section 8 for information on person See Section 13 for disposal information.			
7 Handling and storage			
Handling			
Precautions for safe handling Keep container tightly sealed.			
Store in cool, dry place in tightly closed Ensure good ventilation at the workplace	containers.		
	explosions and fires: No information known.		
Conditions for safe storage, including Storage	g any incompatibilities		
Requirements to be met by storeroon	ns and receptacles: No special requirements.		
Further information about storage co	nmon storage facility: Store away from oxidizing agents. nditions:		
Keep container tightly sealed. Store in cool, dry conditions in well seale			
Specific end use(s) No further relevant	information available.		
8 Exposure controls/personal prote	ection		
Additional information about design of	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Control parameters			
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data			
Additional information: No data	in quantites of materials with chical values that have to be monitored at the workplace.		
Exposure controls Personal protective equipment			
General protective and hydienic meas	sures		
The usual precautionary measures for h Keep away from foodstuffs, beverages a	and feed.		
Remove all soiled and contaminated clo Wash hands before breaks and at the el	thing immediately. nd of work.		
Avoid contact with the eves and skin.			
Breathing equipment: Use suitable res Protection of hands:	vorking environment. pirator when high concentrations are present.		
Impervious aloves	so for their proper condition		
Check protective gloves prior to each us The selection of suitable gloves not only	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothi	minutes) Not determined		
Body protection: Protective work clothi	ing.		
9 Physical and chemical properties			
Information on basic physical and ch General Information	emical properties		
Appearance:	Salid		
'Form: Color:	Solid White		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range:	220-223 ℃ (428-433 °F)	1	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined		
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.		
Ignition temperature:	Not determined		
		(Contd. on page 3)	

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	(Contd. of p
Decomposition temperature:	Not determined
Auto igniting: Danger of explosion:	Not determined. Not determined.
Explosion limits:	
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.
dynamic: kinematic:	Not applicable. Not applicable.
Other information	Not applicable. No further relevant information available.
10 Stability and reactivity Reactivity No information known.	
Chemical stability Stable under recom Thermal decomposition / conditions	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age	t information available.
Hazardous decomposition products: Carbon monoxide and carbon dioxide	
Boron oxide Nitrogen oxides Hydrogen bromide	
11 Toxicological information	
Information on toxicological effects Acute toxicity: No effects known.	
LD/LC50 values that are relevant for o	
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	rious eve irritation.
Sensitization: No sensitizing effects kn	own.
Germ cell mutagenicity: No effects kno Carcinogenicity: EPA-I: Data are inade	own. own. equate for an assessment of human carcinogenic potential.
Reproductive toxicity: No effects know	/n.
Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>
Aspiration hazard: No effects known.	
Subacute to chronic toxicity: No effect Additional toxicological information:	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant inf	ormation available.
Persistence and degradability No furth Bioaccumulative potential No further i	ner relevant information available. relevant information available.
Mobility in soil No further relevant infor	mation available.
Additional ecological information: General notes:	
Do not allow material to be released to t	he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.
Avoid transfer into the environment	
Results of PBT and vPvB assessmen PBT: Not applicable.	t
vPvB: Not applicable.	
Other adverse effects No further releva	ant information available.
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.
Uncleaned packagings:	5 , , , ,
Recommendation: Disposal must be m	
14 Transport information UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex	I of MARPOL73/78 and the IBC Code Not applicable.

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Product name: 5-Bromo-2-methoxypyrid	ine-3-boronic acid
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Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	<u> </u>
15 Regulatory information Safety, health and environmental regulation GHS label elements The product is classified Hazard pictograms	ns/legislation specific for the substance or mixture I and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinse cautious P304+P340 IF INHALED: Remove persis P405 Store locked up. P501 Dispose of contents/contair National regulations This product is not listed in the U.S. Environme to research and development only. This produc product must not be used for commercial purpy This product is not listed on the Canadian Don SARA Section 313 (specific toxic chemical I California Proposition 65 Prop 65 - Chemicals known to cause cancel Prop 65 - Developmental toxicity Substance Prop 65 - Developmental toxicity, female Sub Information about limitations of use: For use Other regulations, limitations and prohibitiv Substance of Very High Concern (SVHC) ac The conditions of restrictions according to market and use must be observed. Substance is not listed.	Nective clothing/eye protection/face protection. sly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. ner in accordance with local/regional/national/international regulations. ental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ict must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This oses or in formulations for commercial purposes. nestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). <b>listings</b> ) Substance is not listed. a is not listed. b is not listed. b is not listed.
information to ensure proper use and protect th conformance with this Material Safety Data Sh	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in neet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing E Date of preparation / last revision 11/24/201 Abbreviations and acronyms: RID: Reglement international concernant le transport des mara ADR: Accord européen sur le transport des marchandises dar DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American CI HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System LC50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent vPuB: very Persistent and very Bioaccumulative ACGiH: American Conference of Governmental Industrial Hyc OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency (IUSA)	15 / - rchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ingereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) chemical Society) i (Canada)