



Reviewed on Us,	14/2000
1 Identification	
Product identifier Product name: 6-Ethoxypyridine-3-boronic acid	
Stock number: L20398	
CAS Number:	
612845-44-0 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	
Tel: 800-343-0660 Fax: 800-322-4757	
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)	
CI GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. 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/sprav	
P201 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	
(\mathbf{T})	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1	
FRE IFlammability = 1 REACTIVITY1 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: 612845-44-0 6-Ethoxypyridine-3-boronic acid	
4 First-aid measures	
Description of first aid measures After inhalation	
After Innalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
(Contd. o	n page 2 USA

Product name: 6-Ethoxypyridine-3-boronic acid (Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further 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 substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. 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 containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood 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: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable gloves prior to each use for their proper condition. 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 minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition 102-104 °C (216-219 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Flash point: Not applicable Flammability (solid, gaseous) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

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Product name: 6-Ethoxypyridine-3-	boronic acid		
	(Contd. of page 2)		
Auto igniting:	Not determined.		
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits: Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with Water:	Insoluble		
Partition coefficient (n-octanol/water Viscosity:			
dynamic:	Not applicable.		
kinematic: 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	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions N Conditions to avoid No further relevan	Io dangerous reactions known		
Incompatible materials: Oxidizing age	ents		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Nitrogen oxides Boron oxide			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known.			
LD/LC50 values that are relevant for			
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes se	erious eve irritation.		
Sensitization: No sensitizing effects kr Germ cell mutagenicity: No effects kr	nown.		
Germ cell mutagenicity: No effects kr Carcinogenicity: EPA-I: Data are inac	nown. Jequate for an assessment of human carcinogenic potential.		
Reproductive toxicity: No effects know	own.		
Specific target organ system toxicity	y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe			
Subacute to chronic toxicity:			
Boron affects the central nervous syste	em. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound shock and subnormal and a scarletina form rash may cover the entire body.		
Additional toxicological information:	: 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 in	iformation available.		
Persistence and degradability No fun Bioaccumulative potential No further	r relevant information available.		
Mobility in soil No further relevant info Additional ecological information:	ormation available.		
General notes:			
Do not allow material to be released to the environment without proper governmental permits. Avoid transfer into the environment.			
Results of PBT and vPvB assessment			
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further relev	/ant information available.		
13 Disposal considerations			
Waste treatment methods			
	l or national regulations to ensure proper disposal.		
Recommendation: Disposal must be r	made according to official regulations.		
14 Transport information			
Not a hazardous material for transporta	ation.		
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name			
DOT, IMDG, IATA	None		
Transport hazard class(es)			
DOT, ADR, IMDG, IATA Class	None		
Packing group DOT, IMDG, IATA	None		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
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Product name: 6-Ethoxypyridine-3-boronic acid		
	(Contd. of page 3	
Transport in bulk according to Annex II of MARPOL73/78 a	nd the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Maring Dollutant (DOT):		
Marine Pollutant (DOT):	No	
15 Regulatory information Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms	ecific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)	
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	s/sprav.	
P405 Store locked up.	/spray. ye protection/face protection. several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. d keep comfortable for breathing. e with local/regional/national/international regulations.	
This product is not listed in the U.S. Environmental Protection A to research and development only. This product must be used I product must not be used for commercial purposes or in formula SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65	nce is not listed.	
Prop 65 - Chemicals known to cause cancer Substance is no Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, male Substance is not listed Information about limitation of use: For use only by technica Other regulations. Jimitations and prohibitive regulations	sted. ed. Ilv gualified individuals	
I he conditions of restrictions according to Article 67 and A market and use must be observed. Substance is not listed.	REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
Annex XIV of the REACH Regulations (requiring Authorisat Chemical safety assessment: A Chemical Safety Assessmen	t has not been carried out.	
information to ensure proper use and protect the health and saf	other information gathered by them, and should make independent judgement of suitability of this fety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Abstracts Service (division of the American Chemical Society)		
MMIS: Hazaroous Materials Identification System (USA) WHMIS: Workplace Hazaroous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)		

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)