



1 Identification
Product identifier
Product name: <u>4-(Ethylthio)benzeneboronic acid</u> Stock number: L17623
CAS Number: 145349-76-4
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
www.ana.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.
Eye Innt. 2A H319 Causes serious eye Inntation. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
Hazards not otherwise classified No information known.
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
\land
GHS07
Signal word Warning
Hazard statements H315 Causes skin irritation.
H319 Causes serious eve 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. 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
\mathbb{U}
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FRE I Flammability = 1
REACTIVITY 1 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:
145349-76-4 4-(Ethylthio)benzeneboronic 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 contact Immediately wash with water and soap and rinse thoroughly.
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical tréatment. (Contd. on page 2)

Product name: 4-(Ethylthio)benzeneboronic 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 Boron oxide Sulfur oxides (SOx) 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: Solid Color: White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 104-106 °C (219-223 °F) Not determined 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: 4-(Ethylthio)benzene	eboronic acid			
		(Contd. of page 2)		
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion ha	azard.		
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density	Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water: Partition coefficient (n-octanol/water)	Insoluble Not determined			
Viscosity:	,			
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known.	· · · · · · · · · · · · · · · · · · ·			
Chemical stability Stable under recom Thermal decomposition / conditions	mended storage conditions.	ur if used and stored according to specifications.		
Possibility of hazardous reactions No	lo dangerous reactions known			
Conditions to avoid No further relevant Incompatible materials: Oxidizing age	ents			
Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Boron oxide Sulfur oxides (SOx)				
11 Toxicological information				
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for o				
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes si	classification: No data			
Eye irritation or corrosion: Causes se	erious eye irritation.			
Sensitization: No sensitizing effects kn	nown			
Carcinogenicity: EPA-1: Data are inad	hown. lequate for an assessment of human carcino	ogenic potential.		
Reproductive toxicity: No effects know	wn.			
Specific target organ system toxicity Aspiration hazard: No effects known.	/ - repeated exposure: No effects known. / - single exposure: May cause respiratory	[,] irritation.		
Subacute to chronic toxicity: No effect	cts known.			
Subacute to chronic toxicity:		the circulation, persistant vomiting and diarrhea, followed by profound shock and		
coma. The temperature may become s	subnormal and a scarletina form rash may c	the circulation, persistant vomiting and diarrhea, followed by profound shock and over the entire body.		
	I o the best of our knowledge the acute and	d chronic toxicity of this substance is not fully known.		
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant in	oformation available			
Persistence and degradability No furt	ther relevant information available.			
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.			
Additional ecological information: General notes:				
Do not allow material to be released to	the environment without proper government	atal 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				
Recommendation Consult state, local Uncleaned packagings:	or national regulations to ensure proper dis	;posal.		
Recommendation: Disposal must be n	nade according to official regulations.			
14 Transport information				
Not a hazardous material for transportat	tion.			
DOT, IMDG, IATA	N	lone		
UN proper shipping name DOT, IMDG, IATA	Λ	lone		
Transport hazard class(es)				
DOT, ADR, IMDG, IATA Class	٨	lone		
Packing group DOT, IMDG, IATA				
		lone		
Environmental hazards:		lot applicable.		
Special precautions for user		lot applicable. (Contd. on page 4)		

Product name: 4-(Ethylthio)benzeneboronic acid			
	(Contd. of page		
Transport in bulk according to Annex II of MARPOL73/	78 and the IBC Code Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
5 Regulatory information			
Safety, health and environmental regulations/legislatio	on specific for the substance or mixture		
GHS label elements The product is classified and labeled Hazard pictograms	in accordance with 29 CFR 1910 (OSHA HCS)		
\wedge			
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/vap	pours/sprav.		
P304+P340 IF INHALED: Remove person to fresh a	ing/eye protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing.		
P405 Store locked up. P501 Dispose of contents/container in accord	dance with local/regional/national/international regulations.		
National regulations This product is not listed in the U.S. Environmental Protect	tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict		
to research and development only. This product must be u	used by or directly under the supervision of a technically qualified individual as defined by TSCA. This		
product must not be used for commercial purposes or in fo SARA Section 313 (specific toxic chemical listings) Su	ibstance is not listed.		
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance	e is not listed.		
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is r			
Prop 65 - Developmental toxicity. male Substance is not	t listed.		
Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulatio	inically qualified individuals. I ns		
Substance of Very High Concern (SVHC) according to	the REACH Regulations (EC) No. 1907/2006. Substance is not listed.		
market and use must be observed.	and Annex XVII of the Regulátion (EC) No 1907/2006 (REACH) for the manufacturing, placing on th		
Substance is not listed. Annex XIV of the REACH Regulations (requiring Autho	vrisation for use) Substance is not listed.		
Chemical safety assessment: A Chemical Safety Assess	sment has not been carried out.		
6 Other information			
Employers should use this information only as a suppleme	ent to other information gathered by them, and should make independent judgement of suitability of this Ind safety of employees. This information is furnished without warranty, and any use of the product not in		
conformance with this Material Safety Data Sheet, or in co.	mbination 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:			
RID: Regiement international concernant le transport des marchandises dang IATA-DGR: Dangerous Goods Regulations by the "International Air Transport ICAO: International Civil Aviation Organization	pereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) t Association" (IATA)		
ICAO-TIL Technical Instructions by the "International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods	on" (ICAO)		
DOT: US Department of Transportation IATA: International Air Transport Association			
IA A-DGR- Danigerous Goods Regulations by the International All Transport ICAC: International Civil Aviation Organization ICAC-TI: Technical Instructions by the "International Civil Aviation Organizatio IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Ari Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCEO: Lobal concentration. 60			
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent			
VFINIDS. Workpace Hazardous Waterians minimation System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGHI: Amoreon Conference of Governmental Industrial Hyrianists (USA)			
ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)			
IADC: International Agency for December Concer			

USHA: Occupational Safety and Health Administratic NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)