



1	Identification Product identifier Product name: <b>4-Methoxy-3,5-dimethylbenzeneboronic acid</b>
	Stock number: 19820 CAS Number: 301699-39-8
	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. 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.         H319 Causes serious eye irritation.         H315 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       Dispose of contents/container in accordance with local/regional/national/international regulations.         D28 - Toxic material causing other toxic effects
	$(\overline{\mathbf{T}})$
	Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH I Health (acute effects) = 1
	File     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: 301699-39-8 4-Methoxy-3,5-dimethylbenzeneboronic 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 immediate medical advice.
	After eve contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. (Contd. on page 2)
	USA

## Product name: 4-Methoxy-3,5-dimethylbenzeneboronic 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 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 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 Check protective 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: Color: Powder 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:
 237 °C (459 °F) Not determined Not determined

 Flash point: Flammability (solid, gaseous) Ignition temperature:
 Not applicable Not determined Not determined

(Contd. on page 3)

## Product name: 4-Methoxy-3.5-dimethylbenzeneboronic acid

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Pertinion coefficient (n-octanol/water): Not determined. Viscosity: Wiscosity: Wiscosity: Wiscosity: Not applicable Not	
dynamic: Minematic: Other Information         Not applicable. No further relevant information available.           10 Stability and reactivity Reactivity No information frown. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No degreeous reactions frown Conditions to avoid No turber relevant information available. Intervention of the according of the according to specifications. Possibility of hazardous reactions No degreeous reactions frown Conditions to avoid No turber relevant information available. Intervention of the according to specifications. Possibility of theorem for the according to specifications. Possibility of theorem for the according to specification: No data Stati intritation or corrostion: Causes shown Conditions to avoid 90 (and streams for classification: No data Stati intritation or corrostion: Causes shown Germ cell mutagenicity: FAR-1 Decauses frown. Germ cell mutagenicity: FAR-1 Decauses frown. Specific area of the area in pacequate for an assessment of human carcinogenic potential. Repetition for the static stream for classification: No data Stati intritation or corrostion: Causes shown. Specific area of the area in pacequate for an assessment of human carcinogenic potential. Repetition for the static streams in backet shown. Subscute to chronic toxic/10 effects known. Subscute to chronic toxic/10 eff	
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Reproductive toxicity: No effects known.         Specific target organ system toxicity - single exposure: No effects known.         Sepiration hazard: No effects known.         Subacute to chronic toxicity: No effects known.         Subacute to chronic toxicity: Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound sho come.         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 information available.         Persistence and degradability No further relevant information available.         Bioaccumulative potential No further relevant information available.         Becing allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         PBT: Not applicable.         Very B: Not applicable.         Very B: Not applicable.         Other adverse effects No further relevant information available.         Avoid transfer into the environment.         Results of PBT and VPVB assessment         PBT: Not applicable.         Other adverse effects No further relevant information available.         If Disposal considerations         Waste treatment methods         Recommendation Cousult state, local	
Specific target organ system toxicity - single exposure: May cause respiratory irritation.         Aspiration hazard: No effects known.         Subacute to chronic toxicity:         Boron affects the central nervous system. Boron poisoning causes depression of the circulation, persistant vomiting and diarrhea, followed by profound sho coma. The temperature may become subnormal and a scarletina form rash may cover the entire body.         Additional toxicological information:         To keenperature may become subnormal and a scarletina form rash may cover the entire body.         Additional toxicological information:         To keenperature may become subnormal and a scarletina form rash may cover the entire body.         Additional toxicological information:         Toxicity         Aquatic toxicity: No further relevant information available.         Persistence and degradability No further relevant information available.         Bioaccumulative potential No further relevant information available.         Additional ecological information:         General notes:         Do not allow material to be released to the environment without proper governmental permits.         Avoid transfer into the environment.         Results of PT and vPVB assessment         PBT: Not applicable.         VPVB: Not applicable.         VHVB: Not applicable.         VHVB avoid coasiderations         Waste treatment methods      <	
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UN-Number DOT, IMDG, IATA None	
DOT, IMDG, IATA None	
UN proper smpping name	
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.	
	on page 4

(Contd. on page 4)

Product name: 4-Methoxy-3,5-dimethylbenzeneboronic acid			
	(Contd. of page 3)		
Transport in bulk according to Annex II of MARPOL73/			
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
15 Regulatory information			
Safety, health and environmental regulations/legislatic GHS label elements The product is classified and labeled Hazard pictograms	on specific for the substance or mixture I in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protec to research and development only. This product must be u product must not be used for commercial purposes or in fc SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed Prop 65 - Developmental toxicity, male Substance is no Information about limitation of use: For use only by tecl Other regulations, limitations and prohibitive regulatio Substance of Very High Concern (SVHC) according to	hing/eyé protection/face protection. er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. dance with local/regional/national/international regulations. extion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This prmulations for commercial purposes. Justance is not listed. e is not listed. and listed. hinically qualified individuals. ons the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
16 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		
conformance with this Material Safety Data Sheet, or in co Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	gereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)		

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA