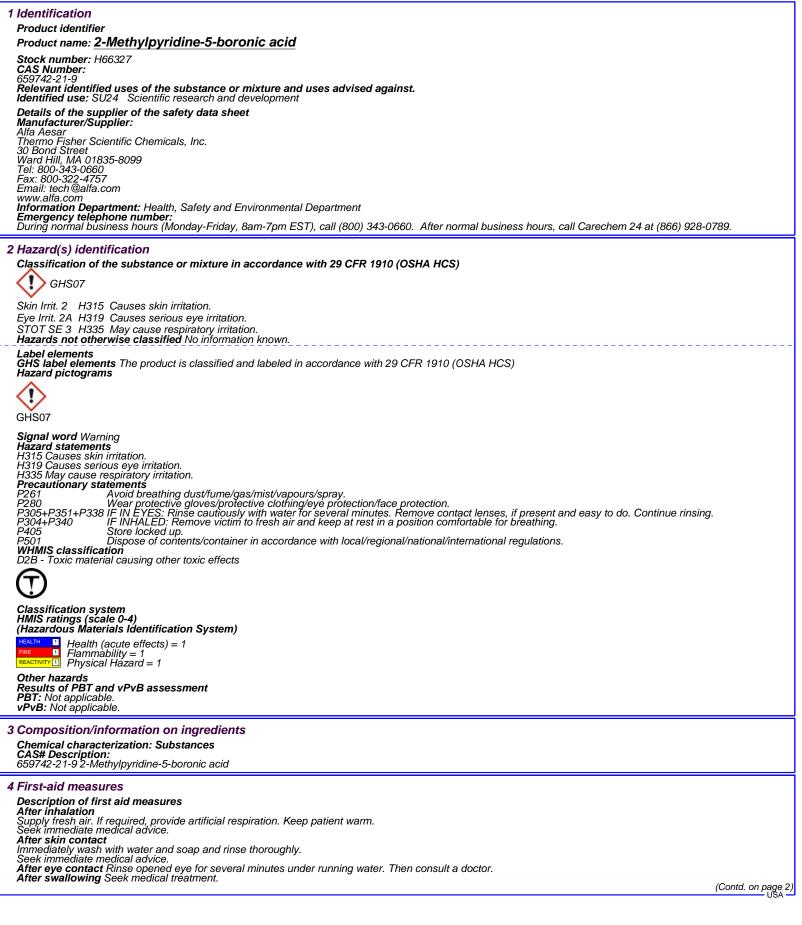


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Methylpyridine-5-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 product to reach sewage system or any water course. 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:

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

Exposure controls

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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves and skin

Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. **Breathing equipment:** Use suitable respirator when high concentrations are present.

Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 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. Eye protection: Safety glasses Body protection: Protective work clothing.

.

9 Physical and chemical properties			
	Information on basic physical and cl General Information Appearance: Form: Odor: Odor threshold:	emical properties Powder Not determined Not determined.	
	pH-value:	Not applicable.	
	Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined Not determined Not determined. Not determined	

(Contd. on page 3)

Product name: 2-Methylpyridine-5-boronic acid

Page 3/4 Printing date 02/01/2016 Reviewed on 01/28/2016

		(Contd. of page 2)	
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Not determined.		
Explosion limits: Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/wat	Not determined t er): 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 reco	ommended storage conditions		
Thermal decomposition / condition	ommended storage conditions. Is to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Conditions to avoid No further relev	vant information available.		
Incompatible materials: Oxidizing a	aents		
Hazardous decomposition product Carbon monoxide and carbon dioxide	5. 9		
Nitrogen oxides Boron oxide			
11 Toxicological information			
11 TOXICOlOgical Information Information on toxicological effects			
Acute toxicity: No effects known.			
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes			
Eve irritation or corrosion: Causes	serious eye irritation.		
Sensitization: No sensitizing effects Germ cell mutagenicity: No effects	known. known		
Carcinogenicity: EPA-I: Data are ina	adequate for an assessment of human carcinogenic potential.		
Reproductive toxicity: No effects kr Specific target organ system toxic	nown. ity - repeated exposure: No effects known.		
Specific target organ system toxicity - single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known Subacute to chronic toxicity: No ef	n. Ifects known		
	n: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
Carcinogenic categories OSHA-Ca (Occupational Safety & F	Health Administration) Substance is not listed.		
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.			
Mobility in soil No further relevant in Additional ecological information:	nformation available.		
General notes:	The supertities to reach strained water, water as the action of actions		
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PDT. Not complicable			
			PBT: Not applicable. vPvB: Not applicable.
Other adverse effects No further relevant information available.			
13 Disposal considerations			
Waste treatment methods Recommendation Consult state loc	al or national regulations to ensure proper disposal		
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:			
Recommendation: Disposal must be made according to official regulations.			
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 Booking group	Not applicable		
Packing group DOT, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
		(Contd. on page 4,	

(Contd. on page 4)

