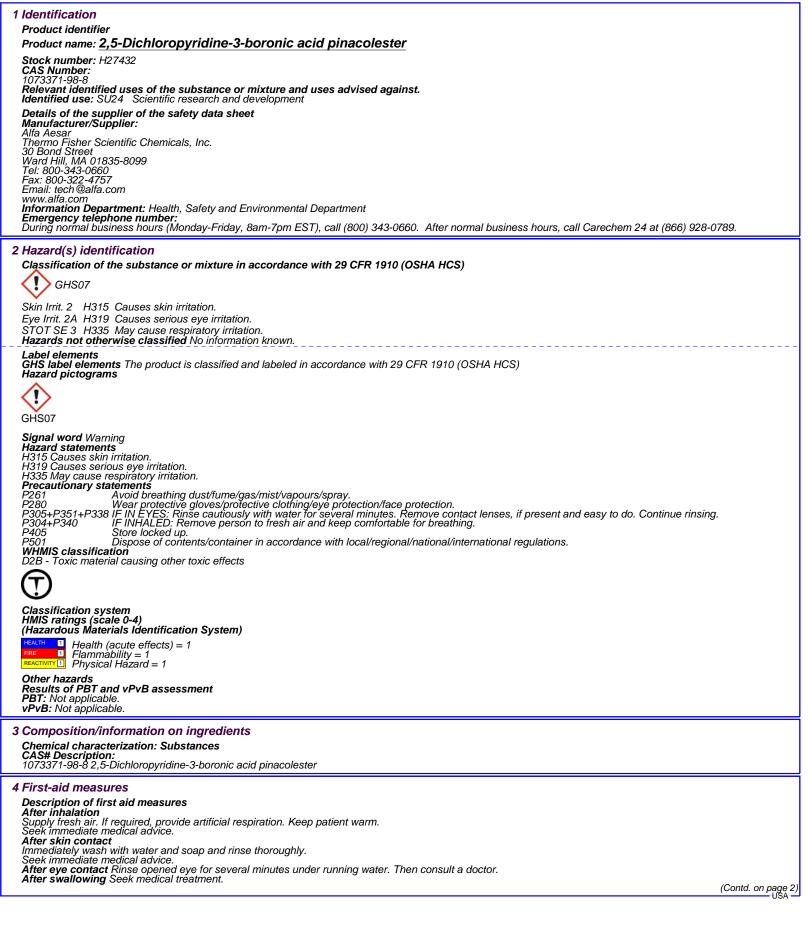


Safety Data Sheet per OSHA HazCom 2012



Product name: 2,5-Dichloropyridine-3-boronic acid pinacolester

(Contd. of page 1)

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.	
5 Fire-fighting measures		
Extinguishing media	diavida, avtinguiahing naudar ar watar aprov. Fight larger firse with water aprov or alashal registent form	
Special hazards arising from the subs	a dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide	niowing can be released:	
Boron oxide Hydrogen chloride (HÇI)		
Nitrogen oxides (NOx) Advice for firefighters		
Protective equipment: Wear self-contained respirator.		
Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equ Wear protective equipment. Keep unpro	ipment and emergency procedures tected persons away.	
Ensure adequate ventilation	low material to be released to the environment without proper governmental permits.	
Methods and material for containment Prevention of secondary hazards: No	at and cleaning up: Ensure adequate ventilation.	
Reference to other sections See Section 7 for information on safe ha		
See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.	
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	е.	
	explosions and fires: No information known.	
Conditions for safe storage, including Storage		
Information about storage in one con	ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents.	
Further information about storage co		
Store in cool, dry conditions in well seal Specific end use(s) No further relevant	ed containers. t information available.	
8 Exposure controls/personal prote	ection	
Additional information about design (of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters	с с с , , , ,	
Additional information: No data	quire monitoring at the workplace: Not required.	
Exposure controls Personal protective equipment		
General protective and hygienic measures for h	sures handling chemicals should be followed.	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	and feëd.	
Wash hands before breaks and at the e	nd of work	
Maintain an ergonomically appropriate v	vorking environment. spirator when high concentrations are present.	
Protection of hands: Impervious gloves	prace moningrioonoonialiono aro prodont.	
Check protective gloves prior to each us The selection of suitable gloves pot only	se for their proper condition. ⁄ 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	minutes) Not determined	
Body protection: Salety glasses	ing.	
9 Physical and chemical properties	5	
Information on basic physical and ch General Information	emical properties	
Appearance: Form:	Crystalline powder	
Color:	White	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	75-79 °C (167-174 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
		(Contd on page 3)

Product name: 2,5-Dichloropyridine-3-boronic acid pinacolester

Auto Expiner of expicular: Net determined Design of expicular: Product (dee not present an explosion hazard. Upper Net determined Upper Net detet	Auto Springer of explosion: Product does not present an explosion hazard. Experience of explosion: Product does not present an explosion hazard. Experience of explosion: Not determined Upper Wato Statement Detection: Not determined Period: Instrument Status: Instrument Period: Instrument Peri	Decomposition temperature:	Not determined
Explosion limits: Not setundated Upper interview Not applicable. Variable pressure: Not applicable. Solubility of Macle literrimed. Not applicable. Other information Not applicable. Description of concording the approximation available. Not applicable. Description of concording the approximation available. Not applicable. Information on concording the approximation available. Not applicable. Information on concording the approximation available.	Explosion limits: Not determined by pre- type pressure: Not determined by pre- type pressure: Not determined by pre- type pressure: Not determined by pre- type pre- type pressure: Not determined by pre- type pre- type pre- by pre- type pre- type pre- by pre- type pre- type pre- by pre- type pre- by pre- type pre- typ	Auto igniting:	Not determined.
Lower: Mrd determined Water Construction Mrd applicable. Part of prime Mrd applicable. Statistication Mrd applicable. Mrd applicabl	Cover: Mod described Very provide status Mod applicable Observide status Mod applicable Very provide status Mod applicable Optimistion notion Applicable Very provide status Mod applicable Very provide status </th <th></th> <th>Product does not present an explosion hazard.</th>		Product does not present an explosion hazard.
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Partition coefficient (in-catanol/water): Not determined. Not applicable View applicable Not applicable Not applicable Other information Not further relevant information available. Not applicable O Stability and reactivity Remain and the stability Subter relevant information available. Not further relevant information	Particip coefficient (n-octanol/water): Not deprinted. Other information Not applicable. Obter information Not applicable. Information applicable. Stability and reactives information Information on oxiclos(glad iffects Not applicable. Information on oxiclos(glad iffects Not applicable. <tr< th=""><th>Solubility in / Miscibility with</th><th></th></tr<>	Solubility in / Miscibility with	
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Product name: 2,5-Dichloropyridine-3-boronic acid pinacolester (Contd. of page 3) Environmental hazards: Not applicable. Special precautions for user Not applicable. 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 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture 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 Precationary 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. P504 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be 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 formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. National regulations market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and 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 combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination 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: RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: Thermational Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Air Transport for Dangerous Goods by Rail) IMDG: International Martime Code for Dangerous Goods DOT: US Department of Transportation ICAO: Thermational Martime Code for Dangerous Goods DOT: US Department of Transportation ICAO: Schemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (ICAO) IMMS: Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent USD: Concurstional Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATE: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA