



Safety Data Sheet acc. to OSHA HCS

Product name: 4-Chlorobenzeneboronic acid pinacol ester

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After swallowing Seek medical tréatme Information for doctor Most important symptoms and effects Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.		(Contd. of page 1)
5 Fire-fighting measures	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unpro- Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	tected persons away. Iow product to reach sewage system or any water course. t and cleaning up: Ensure adequate ventilation. special measures required. andling al protection equipment.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: ed containers.	
 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 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 eyes and skin. Maintain an egnonnically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Protective gloves not only depends on the material, but also on quality. Protection: Protective gloves not only depends on the material, but also on quality. Protection: Protective gloves not only depends on the material, but also on quality. Protection: Protective gloves work not only depends on the material, but also on quality. Protection: Protective work clothing. 		
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Odor:		
Odor threshold:	Not determined.	
pH-value:	Not applicable.	(Contd. on page 3)
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Product name: 4-Chioropenzenepor	Sinc actu pinacoi ester		
Change in condition		(Contd. of page 2)	
Change in condition Melting point/Melting range:	50-55 °C (122-131 °F)		
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined		
Flash point:	> 110 °C (> 230 °F)		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water): Viscosity:	Not determined.		
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 recomm Thermal decomposition / conditions to	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Rea	acts with strong oxidizing agents		
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	Information available. ts		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Hydrogen chloride (HCl)			
Boron oxide			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known.	lassification: No data		
LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation.			
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno			
Germ cell mutagenicity: No effects known.			
Carcinogenicity: EPA-I: Data are inadequate for an assessment of human carcinogenic potential. Reproductive toxicity: No effects known.			
Specific target organ system toxicity - 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 effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
Carcinogenic categories			
	Ith 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 re	elevant information available.		
Mobility in soil No further relevant information available. Additional ecological information:			
General notes:			
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			
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further releva	nt information available.		
13 Disposal considerations			
Waste treatment methods			
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		
		(Contd. on page 4)	
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Product name: 4-Chlorobenzeneboronic acid pinacol ester			
	(Contd. of page 3)		
Transport hazard class(es)			
DOT, ADR, ADN, IMDG, IATA	Not applicable		
	Not applicable		
Packing group DOT, IMDG, IATA	Not applicable		
	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:			
DOT			
	No		
UN "Model Regulation":	-		
15 Pagulatawa informatian			
15 Regulatory information Safety, health and environmental regulations/legislation specific for the sub GHS label elements The product is classified and labeled in accordance with 29 Hazard pictograms	bstance or mixture 9 CFR 1910 (OSHA HCS)		
GHS07			
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes skin irritation. H319 Causes skin irritation. H319 Causes skin irritation. H315 Causes skin irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/profective protection/face protection. P305-P351+P338 F 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 victim to fresh air and keep at rest in a position comfortable for breathing. P321 Specific treatment (see on this label). P322 Specific treatment (see on this label). P331 If skint firtation occurs: Get medical advice/attention. P332 Specific treatment (see on this label). P332 Specific treatment (see on this label). P333 If skint firtation occurs: Get medical advice/attention. P433+P233 Specific treatment (see on this label). P334 P340 P335 Specific toxic chainer in accordance with local/regional/national/international regulations. Motor is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance list to SL). Prop 65			
 16 Other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employees, conformance with this Material Safety Data Sheet, or in combination with any oth Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/04/2016 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement c D0T: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA. Occupational Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Agency for Research on Cancer EPA: Environmental Agency (USA) Skin Irrit: 2: Skin corrosion/irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 	This information is furnished without warranty, and any use of the product not in her product or process, is the responsibility of the user.		