

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 4-(1-Pyrrolidinyl)benzeneboronic acid pinacol ester
Stock number: H59911
CAS Number: 852227-90-8
oszzz 7-90-6 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
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
$\langle ! \rangle$
GHS07
Signal word Warning
Hazard statements H315 Causes skin irritation.
H319 Causes serious eve irritation.
H335 May cause respiratory irritation. Precautionary statements P261 Automation of the state o
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.
P304+P30 IF IN LLD. The callously with water for several minutes. Remove contact lenses, it present and easy to do. Continue mising. 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
$\widehat{\mathbf{T}}$
\bigcirc
Classification system HMIS ratings (scale 0-4)
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
REACTIVITY 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: 852227-90-8 4-(1-Pyrrolidinyl)benzeneboronic acid pinacol ester
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 eye 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-(1-Pyrrolidinyl)benzeneboronic acid pinacol ester

Reviewed on 03/11/20

Froduct name. 4-(1-F yfronunryf)Denzenk			
Information for doctor Most important symptoms and effects, bot Indication of any immediate medical attent	th acute and delayed No further relevant information available. tion and special treatment needed No further relevant information available.	(Contd. of page 1)	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxi Special hazards arising from the substance If this product is involved in a fire, the followin Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	ide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. e or mixture Ig can be released:		
6 Accidental release measures Personal precautions, protective equipment Wear protective equipment. Keep unprotected Ensure adequate ventilation Environmental precautions: Do not allow m Methods and material for containment and Prevention of secondary hazards: No spec Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal pro- See Section 13 for disposal information.	d persons away. A terial to be released to the environment without proper governmental permits. I cleaning up: Ensure adequate ventilation. ial measures required.		
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed conta Ensure good ventilation at the workplace. Information about protection against explo Conditions for safe storage, including any Storage Requirements to be met by storerooms an Information about storage in one common Further information about storage conditio Keep container tightly sealed. Store in cool, dry conditions in well sealed coo Specific end use(s) No further relevant inform	osions and fires: No information known. • incompatibilities • d receptacles: No special requirements. • storage facility: Store away from oxidizing agents. ons: • ntainers.		
Control parameters Components with limit values that require	chnical systems: ned for hazardous chemicals and having an average face velocity of at least 100 feet per minute. monitoring at the workplace:		
The product does not contain any relevant que Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handlin Keep away from foodstuffs, beverages and fe Remove all soiled and contaminated clothing Wash hands before breaks and at the end of Avoid contact with the eyes and skin. Maintain an ergonomically appropriate workin Breathing equipment: Use suitable respiratto Protection of hands: Impervious gloves Check protective gloves prior to each use for	antities of materials with critical values that have to be monitored at the workplace. Ing chemicals should be followed. Sed. immediately. work. Ing environment. or when high concentrations are present. their proper condition. ends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
9 Physical and chemical properties			
Information on basic physical and chemica General Information Appearance: Form: Soli	d		
	determined determined.		
· · ·	applicable.		
Boiling point/Boiling range: Not Sublimation temperature / start: Not Flammability (solid, gaseous) Not Ignition temperature: Not Decomposition temperature: Not	determined determined determined determined determined determined determined	0	
		(Contd. on nade 3)	

(Contd. on page 3)

Product name: 4-(1-Pyrrolidinyl)benzeneboronic acid pinacol ester

Product name: 4-(1-Pyrrolidinyl)benz	zeneboronic acid pinacol ester	
		(Contd. of page 2)
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not applicable. Not determined. Not applicable. Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Boron oxide	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available. ts	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. own. guate for an assessment of human carcinogenic potential. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furthe Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ner relevant information available. elevant information available. mation available. he environment without proper governmental permits. juantities to reach ground water, water course or sewage system. t	
Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. ade 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	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
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.	
		(Contd. on page 4) USA

roduct name: 4-(1-Pyrrolidinyl)benzeneboronic acid pinacol ester			
Transport/Additional information:	(Contd. of pag		
DOT			
Marine Pollutant (DOT):	No		
UN "Model Regulation":	-		
	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P305+P351+P338 IF IN EYES: Rinše cautiou. P304+P340 IF INHALED: Remove per. P405 Store locked up. P501 Dispose of contents/conta. National regulations This product is not listed in the U.S. Environm to research and development only. This produ product must not be used for commercial pun This product is not listed on the Canadian Do SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity, female S Prop 65 - Developmental toxicity, male Sul Information about limitations of use: For usd Other regulations, limitations and prohibit Substance of Very High Concern (SVHC) a The conditions of restrictions according to market and use must be observed. Substance is not listed.	ofective clothing/eyé protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. hiner in accordance with local/regional/national/international regulations. nental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. I listings) Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). I listings) Substance is not listed. e is not listed. batance is not listed. batance is not listed. e only by technically qualified individuals. tive regulations according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. o Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t muring Authorisation for use) Substance is not listed.		
information to ensure proper use and protect conformance with this Material Safety Data S	s a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not in the combination with any other product or process, is the responsibility of the user.		
DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American (HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C50: Lotted conconcristion, 50 percent	115 [°] / - langereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Chemical Society) m (Canada)		
LCGC. Lethal dose, 50 percent LDSC: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (USA NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	ygienists (USA) 1)		

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

USA