

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 4-(2-Tetrahydropyranyloxy)benzeneboronic acid
Stock number: H50445 CAS Number:
182281-01-2
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 Word Life M 64935, 9000
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-32 <u>2</u> -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 Cląssification 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. H335 May cause respiratory irritation. H335 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+P3351+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 D2B - Toxic material causing other toxic effects
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
FIRE 1 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:
182281-01-2 4-(2-Tetrahydropyranyloxy)benzeneboronic 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 eye contact R inse opened eye for several minutes under running water. Then consult a doctor.
After system contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. (Contd. on pa

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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 Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:					
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.						
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. The environment without proper governmental permits. t and cleaning up: Ensure adequate ventilation. special measures required. Indling al protection equipment.					
7 Handling and storage						
Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace	e. explosions and fires: No information known.					
Conditions for safe storage, including	•					
Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Protect from heat.						
Store away from oxidizing agents. Further information about storage con Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant						
8 Exposure controls/personal prote	action					
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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.						
Avoid contact with the eyes and skin.						
Breathing equipment: Use suitable res Protection of hands: Impervious gloves	vorking environment. pirator when high concentrations are present.					
Check protective gloves prior to each us The selection of suitable gloves not only Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothi	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined					
	-					
9 Physical and chemical properties Information on basic physical and che						
General Information Appearance: Form:	Powder					
Color:	Pale brown					
Odor: Odor threshold:	Not determined Not determined.					
pH-value:	Not applicable.					
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Elemability (solid gaspour)	Not determined Not determined Not determined					
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined					
		(Contd. on page 3)				

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Product name: 4-(2-Tetrahydropyr	• • • •		(Contd. of page 2)
Decomposition temperature:	Not determined		(Contd. of page 2)
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower: Upper:	Not determined Not determined		
Vapor pressure:	Not applicable. Not determined		
Density: Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/wate			
Viscosity: dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information av	vailable.	
Conditions to avoid No further releva Incompatible materials: Oxidizing agents	to be avoided: Decomposition will Reacts with strong oxidizing agents	not occur if used and stored according to specifications.	
Heat Hazardous decomposition products Carbon monoxide and carbon dioxide Nitrogen oxides Boron oxide	:		
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant fo Skin irritation or corrosion: Causes Eye irritation or corrosion: Causes Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects k Carcinogenicity: EPA-I: Data are ina Reproductive toxicity: No effects known Specific target organ system toxici Aspiration hazard: No effects known Subacute to chronic toxicity: No eff Additional toxicological information	skin irritation. erious eye irritation. nown. dequate for an assessment of humar wm. y - repeated exposure: No effects k y - single exposure: May cause res acts known.	known.	
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant of Persistence and degradability No fu Bioaccumulative potential No further Mobility in soil No further relevant imi Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessme PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	rther relevant information available. r relevant information available. ormation available. the environment without proper gov quantities to reach ground water, w nt	vernmental permits. vater course or sewage system.	
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, loca Uncleaned packagings: Recommendation: Disposal must be	o ,		
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, IMĎG, IATA Environmental hazards:		Not applicable Not applicable.	
Special precautions for user		Not applicable. Not applicable.	
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