

Safety Data Sheet per OSHA HazCom 2012

Reviewed off 11/01/20
1 Identification
Product identifier Product name: Thiophene-2-boronic acid pinacol ester
Stock number: H63819
CAS Number: 193978-23-3
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
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) The substance is not classified according to the Globally Harmonized System (GHS).
Hazards not otherwise classified No information known.
Label elements GHS label elements Not applicable
Hazard pictograms Not applicable Signal word Not applicable
Hazard statements Not applicable WHMIS classification Not controlled
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH II Health (acute effects) = 1 FIRE II Flammability = 1 REACTIVITY II 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:
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Product name: Thiophene-2-boroni		iewed on 11/01/2013	
See Section 8 for information on person See Section 13 for disposal information	nal protection equipment.	(Contd. of page 1)	
7 Handling and storage Handling			
Precautions for safe handling Keep of Information about protection against Conditions for safe storage, includin	t explosions and tires: No information known.		
Information about storage in one con Protect from heat.			
Store away from oxidizing agents. Further information about storage co Specific end use(s) No further relevan	onditions: Keep container tightly sealed. nt information available.		
8 Exposure controls/personal prot Additional information about design			
Control parameters Components with limit values that re			
Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for	asures handling chemicals should be followed.		
The usual precautionary measures for Keep away from foodstuffs, beverages Remove all soiled and contaminated cl Wash hands before breaks and at the Maintain an ergonomically appropriate	working environment.		
Breathing equipment: Use suitable re Protection of hands: Impervious aloves	spirator when high concentrations are present.		
Penetration time of glove material (in Every protection: Safety glasses Body protection: Protective work cloth	ise for their proper condition. ly depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. n minutes) Not determined hing.		
9 Physical and chemical properties			
Information on basic physical and cl General Information Appearance:	nemical properties		
'Form: Odor:	Solid Not determined		
Odor threshold:	Not determined.		
pH-value: Change in condition	Not applicable.		
Melting point/Melting range: Boiling point/Boiling range:	65-70 °C (149-158 °F) Not determined		
Sublimation temperature / start:	Not determined Not determined		
Flammability (solid, gaseous) Ignition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density: Relative density	Not determined Not determined.		
Vapor density Evaporation rate	Not applicable.		
Solubility in / Miscibility with	Not applicable.		
Water: Partition coefficient (n-octanol/water Viscosity:	Not determined •): Not determined.		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.		
Conditions to avoid No further releval Incompatible materials:	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. reacts with strong oxidizing agents nt information available.		
Oxidizing agents Heat Hazardous decomposition products :			
Carbon monoxide and carbon dioxide Sulfur oxides (SOx)		(Contd. on page 3)	
		USA -	

Product name: Thiophene-2-boronic acid pinacol ester

(Contd. of page 2)

Boron oxide	(Contd. of page 2)
11 Toxicological information	
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: EPA-1: 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 - repeated exposure: No effects known. 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.	
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 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 relevant 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	
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.	
Transport/Additional information:	
DOT Marine Pollutant (DOT): No	
UN "Model Regulation": -	
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable Mational regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use a to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as de product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and publications 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 manuf market and use must be observed. Subst	əfined by TSCA. This
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	USA USA (Contd. on page 4)

Product name: Thiophene-2-boronic acid pinacol ester

(Contd. of page 3)

USA

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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: 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) LDS0: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Zafety and Health Administration (USA) NTP: National Toxicology Program (USA) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)