

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier	
Product name: 2-Cyanobenzeneboronic acid Stock number: H52609	
CAS Number:	
138642-62-3 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 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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H301 Toxic if swallowed.	
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	
GHS06	
Signal word Danger Hazard statements	
H301 Toxic if swallowed. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin	
P405 Store locked up.	ng.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 PRE 1 Flammability = 1 Previous Construction 4	
REACTIVITY1 Physical Hazard = 1 Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
PVPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
138642-62-3 2-Cyanobenzeneboronic acid	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2)

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Pro	Product name: 2-Cyanobenzeneboronic acid		
	Seek immediate medical advice. After skin contact Immediately wash with water and soan and rinse thoroughly.		(Contd. of page 1)
	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 After swallowing Seek medical treatment. Information for doctor	't a doctor.	
	Most important symptoms and effects, both acute and delayed No further relevant infor Indication of any immediate medical attention and special treatment needed No further	mation available. r relevant information available.	
5	5 Fire-fighting measures Extinguishing media		
	Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide Hydrogen cyanide (HCN) Advice for firefighters	t larger fires with water spray or alcohol resistant foam.	
	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6	6 Accidental release measures		
	Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment withor Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.	out proper governmental permits.	
	Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.		
7	7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers.		
	Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known.		
	Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing ac	gents.	
	Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.		
8	8 Exposure controls/personal protection		
	Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an av Control parameters	verage face velocity of at least 100 feet per minute.	
	Components with limit values that require monitoring at the workplace: Not required. 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		
	Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves		
	Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quali Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	ity will vary from manufacturer to manufacturer.	
9	9 Physical and chemical properties		
	Information on basic physical and chemical properties General Information Appearance: Form: Solid		
	Color: White to cream Odor: Not determined		
	Odor threshold: Not determined. pH-value: Not applicable.		
			(Contd. on page 3)

Product name: 2-Cvanobenzeneboronic acid

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		eviewed on 08/19/2011	
Product name: 2-Cyanobenzeneboro	onic acid		
		(Contd. of page 2)	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	250-254 °C (482-489 °F) Not determined Not determined Not determined. Not determined Not determined Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
<i>Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with</i>	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.		
Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information available.		
0 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Boron oxide Hydrogen cyanide			
1 Toxicological information Information on toxicological effects Acute toxicity: Toxic if swallowed. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. 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.			
Construction Conservious Conservious Conservious Constervious Cons			
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. nade according to official regulations.		
14 Transport information Not a hazardous material for transportation	tion.		
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
·		(Contd. on page 4)	

(Contd. on page 4) USA

Transport hazard class(es) None DOT, JAPR, MDG, IATA None DoT, MDG, IATA None Deviction Mot applicable. Special precautions for user Not applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport In bulk according to Annex II of MAPOLT378 and the IBC Code Nat applicable. Transport Internation. Marine Pollutant (DOT): No No Stepulatory information Setting applicable. Setting applicable. Wast Diagont Setting applicable. Setting applicable. Setting applicable. Wast Diagont Marine Setting dustfume/gas/mist/vapours/gary. Wast Diagont Wast Diagont Mari		Reviewed 011 06/19/2011		
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Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	Employers should use this information only as a supplement to oth information to ensure proper use and protect the health and safety	her information gathered by them, and should make independent judgement of suitability of this γ of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.		
ADDICYCATIONS and aCrONYINS: RID: Redement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)	Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Redement international concernant le transport des marchandises dangereuses p	par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)		
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Réglement international Civil Aviation Organization IMDG: International Martime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Martime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Identification System (USA) USD: USD epartment of Transport Association IATA: International Air Transport Association IATA: International Air Transport Association IATA: International Air Transport Association IATA: International Aistracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Vorkplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) MRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ICAO: International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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 dosc, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conterence of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)			
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