

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier Product name: 4-(3-Ethylureido)benzeneboronic acid pinacol ester
Stock number: H52953
CAS Number: 874291-00-6
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. 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. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vanours/sprav
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.
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
(\underline{T})
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1
Fire I 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: 874291-00-6 4-(3-Ethylureido)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.
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Information for doctor		(Contd. of page 1)		
Most important symptoms and effect	ts, 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	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam			
Special hazards arising agents called Special hazards arising from the sub	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Stance or mixture ollowing can be released:			
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)	Showing can be released.			
Boron oxide Advice for firefighters				
Protective equipment: Wear self-contained respirator.				
Wear fully protective impervious suit.				
6 Accidental release measures	in mont and amove any average was			
Personal precautions, protective equ Wear protective equipment. Keep unpro	otected persons away.			
Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Provention of accordance with the material to be released to the environment without proper governmental permits.				
Prevention of secondary hazards: No special measures required. Reference to other sections				
See Section 7 for information on safe h See Section 8 for information on persor	andling nal protection equipment.			
See Section 13 for disposal information	n. · · · · ·			
7 Handling and storage Handling				
Precautions for safe handling Keep container tightly sealed.				
Store in cool, dry place in tightly closed Ensure good ventilation at the workplac	l containers. 2e.			
Information about protection against	t explosions and fires: No information known.			
Conditions for safe storage, includin Storage	g any incompatibilities ms and receptacles: No special requirements.			
	mmon storage facility: Store away from oxidizing agents.			
Keep container tightly sealed.				
Store in cool, dry conditions in well sea. Specific end use(s) No further relevan	t information available.			
8 Exposure controls/personal prot				
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 mea The usual precautionary measures for l	isures 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.				
Maintain an ergonomically appropriate Breathing equipment: Use suitable re	working environment. spirator when high concentrations are present.			
Protection of hands: Impervious gloves Check protective gloves prior to each u	the for their proper condition			
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. Quality will vary from manufacturer to manufacturer.				
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work cloth				
9 Physical and chemical properties				
Information on basic physical and ch				
General Information				
Form: Color:	Solid Off-white Net determined			
Odor: Odor threshold:	Not determined Not determined.			
pH-value: Change in condition	Not applicable.			
Melting point/Melting range: Boiling point/Boiling range:	194-196 °C (381-385 °F) Not determined			
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
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		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not de'termined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	mandad atomas conditions	
Chemical stability Stable under recome Thermal decomposition / conditions	o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan	acts with strong oxidizing agents	
Incompatible materials: Oxidizing age		
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Boron oxide		
Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for o	slassification: No data	
Skin irritation or corrosion: Causes sl		
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	own.	
Germ cell mutagenicity: No effects kno	own. equate for an assessment of human carcinogenic potential.	
Reproductive toxicity: No effects know	in.	
Specific target organ system toxicity	- repeated exposure: No effects known.	
Aspiration hazard: No effects known.	- repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	ts known. 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 int	ormation available	
Aquatic toxicity: No further relevant int Persistence and degradability No furth	ier relevant information available.	
Bioaccumulative potential No further I Mobility in soil No further relevant infor	elevant information available. mation available.	
Additional ecological information:		
General notes: Do not allow material to be released to t	he environment without proper governmental permits.	
Do not allow undiluted product or large of	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	t	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	ade according to official regulations.	
14 Transport information		
UN-Number	Not applicable	
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, ĬATA	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.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
		(Contd. on page 4)
		USA -

	Reviewed on 04/12/2012
Product name: 4-(3-Ethylureido	benzeneboronic acid pinacol ester
	(Contd. of page 3)
Transport/Additional information	1:
Marine Pollutant (DOT):	No
UN "Model Regulation":	
15 Regulatory information	
Safety, health and environmenta GHS label elements The product Hazard pictograms	al regulations/legislation specific for the substance or mixture is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P405 Store locked up P501 Dispose of con National regulations This product is not listed in the U.S to research and development only product must not be used for com This product is not listed on the Ca SARA Section 313 (specific toxi California Proposition 65 Prop 65 - Chemicals known to ca Prop 65 - Developmental toxicity Prop 65 - Developmental toxicity Prop 65 - Developmental toxicity Information about limitation of u Other regulations, limitations an Substance of Very High Concert The conditions of restrictions ad market and use must be observe Substance is not listed. Annex XIV of the REACH Regula	tion. g dust/fume/gas/mist/vapours/spray. e gloves/protective clothing/eye protection/face protection. inse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Remove person to fresh air and keep comfortable for breathing. p. itents/container in accordance with local/regional/national/international regulations. S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted /. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This mercial purposes or in formulations for commercial purposes. anadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ic chemical listings) Substance is not listed. y Substance is not listed. y, male Substance is not listed. y male Substance is not listed. y fermale Substance is not listed. y GVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ccording to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
conformance with this Material Sat	ation only as a supplement to other information gathered by them, and should make independent judgement of suitability of this and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in fety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Date of preparation / last revisio Abbreviations and acronyms: RID: Réglement international concernant le tr ADR: Accord européen sur le transport des m DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of HMIS: Hazardous Materials Identification Sys WHMIS: Workplace Hazardous Materials Info LCS0: Lethal concentration, 50 percent LDS0: Lethal concentration, 50 percent VP/B: very Persistent and very Bioaccumulati ACGIH: American Conference of Governmenn OSHA: Occupational Safety and Health Admi NTP: National Toxicology Program (USA) IARC: International Agency for Research on Q	on 11/24/2015 / - ransport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) narchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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