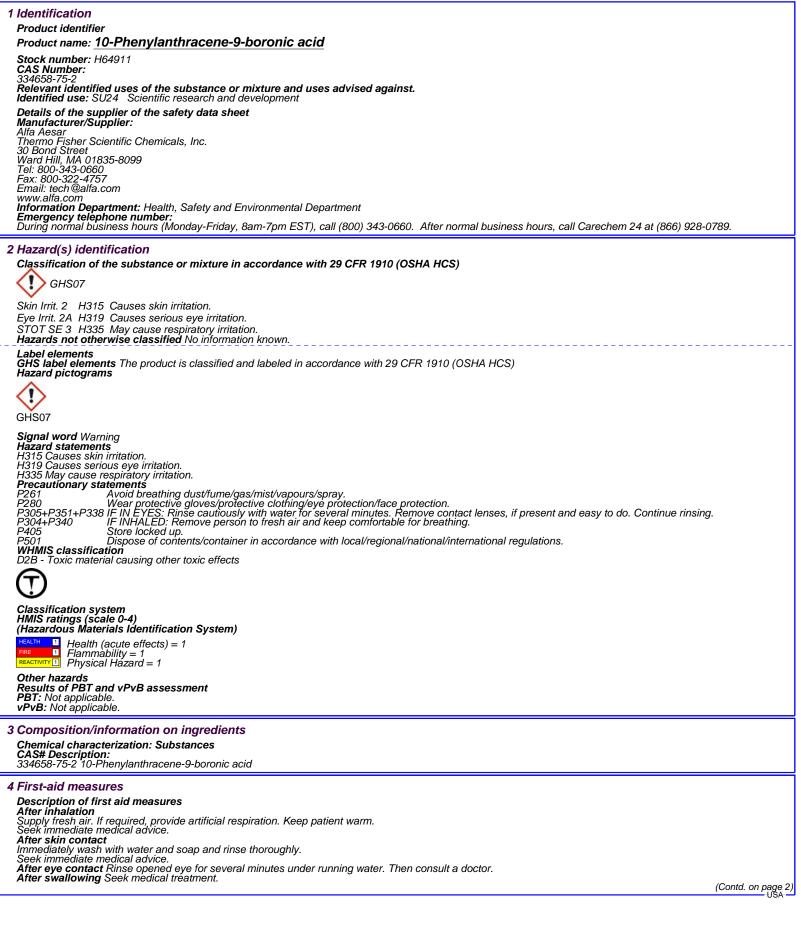


Safety Data Sheet per OSHA HazCom 2012



Product name: 10-Phenylanthracene-9-boronic acid

Information for doctor		(Contd. of page 1)
Information for doctor Most important symptoms and effects, bo Indication of any immediate medical atten	oth acute and delayed No further relevant information available. ntion and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 Boron oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equipme Wear protective equipment. Keep unprotecte Ensure adequate ventilation	ed persons away. The sewage system or any water course. Ind cleaning up: Ensure adequate ventilation. Incial measures required.	
7 Handling and storage		
Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for one including on vincompatibilities		
Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Refrigerate Information about storage in one common storage facility: Store in the dark. Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Protect from exposure to light. Refrigerate		
Specific end use(s) No further relevant infor	rmation available.	
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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.		
Protection of hands: Impervious gloves Check protective gloves prior to each use for The selection of suitable gloves not only depe Eye protection: Safety glasses Body protection: Protective work clothing.	or their proper condition. Dends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties		
9 Physical and chemical properties Information on basic physical and chemic	cal properties	
General Information Appearance: Form: Soli	lid	
	t determined t determined.	
pH-value: Not	t applicable.	
Boiling point/Boiling range: Not Sublimation temperature / start: Not Flammability (solid, gaseous) Not Ignition temperature: Not	ot determined t determined ot determined t determined t determined t determined	
		(Contd. on page 3) USA

10-Phonylanthracono-0-boronic acid Dr duct

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	Revie	ewed on 03/06/2015
Product name: 10-Phenylanthracen	e-9-boronic acid	
		(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 determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water)	Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom	mended storage conditions. to be avoided : Decomposition will not occur if used and stored according to specifications.	
Thermal decomposition / conditions a Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing agents	acts with strong oxidizing agents	
Heat Light Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Boron oxide		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for o	classification: No data	
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	kin irritation.	
Sensitization: No sensitizing effects kn	own.	
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	vn.	
Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	ts 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	iormation available	
Aquatic toxicity: No further relevant in Persistence and degradability No furti Bioaccumulative potential No further r Mobility in soil No further relevant info	her relevant information available. relevant information available.	
Additional ecological information:		
General notes: 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		
PBT: Not applicable		
vPvB: Not applicable. Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	ade according to official regulations.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT, ADN, IMDG, IATA Transport hazard class(es)	Not applicable	
DOT, ADR, ADN, IMDG, IATA	NI-1	
Class Packing group	Not applicable	
DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
I ransport in bulk according to Annex	x II of MARPOL73/78 and the IBC Code Not applicable.	(Contd. on page 4)
		(Coma. on page 4)

(Contd. on page 4)

Safety Data Sheet per OSHA HazCom 2012

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Product name: 10-Phenylanthracene-9-bc	pronic acid
	(Contd. of page 3
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Degulatory information	
15 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
 P405 Store locked up. P501 Dispose of contents/contained National regulations This product is not listed in the U.S. Environment to research and development only. This product must not be used for commercial purpo This product is not listed on the Canadian Domes SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity, substance in Prop 65 - Developmental toxicity, male Substance of Very High Concern (SVHC) acc Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. 	Substance is not listed. is not listed. bstance is not listed. tance is not listed. only by technically qualified individuals. e regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ring Authorisation for use) Substance is not listed.
information to ensure proper use and protect the	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in set, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Do Date of preparation / last revision 11/24/2015 Abbreviations and acronyms: ADB: Accord européen sur le transport des marchandises dang	5/-
DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (UCEO: Lothal concentration, 50 porcent	emical Society) Canada)
LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygi OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	enists (USA)

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