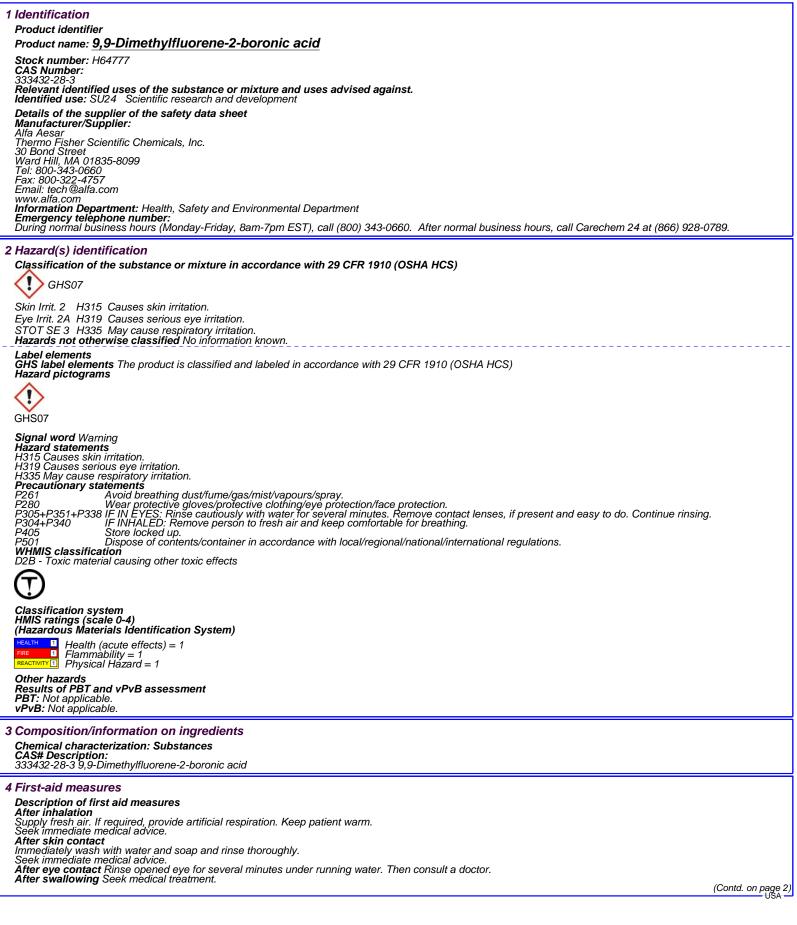


Safety Data Sheet per OSHA HazCom 2012



Product name: 9,9-Dimethylfluorene-2-boronic acid

(Contd. of page 1)

Informat	ion for	doctor	
Most im	nortant	sympton	ns

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention 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 equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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 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 safe storage, including any incompatibilities 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 conditions:

Keep container tightly sealed Refrigerate Specific end use(s) No further relevant information 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

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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eves 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.

Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands:

Impervious gloves

Check protective 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. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing.

0 Dhysical and shamiaal propertie

9 Physical and chemical properties	S
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Powder Off-white Not determined Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined

(Contd. on page 3)

Product name: 9 9-Dimethylfluorene-2-boronic acid

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	Reviewed on	00/20/201
roduct name: 9,9-Dimethylfluore	ene-2-boronic acid	
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Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	-
Explosion limits:	All gradiege models and	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density:	Not determined	
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:	ter): Not determined.	
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
The second se		
) Stability and reactivity		
Reactivity No information known.	· · · · ·	
Chemical stability Stable under reco	ommended storage conditions.	
Possibility of hazardous reactions	ns to be avoided: Decomposition will not occur if used and stored according to specifications. s Reacts with strong oxidizing agents	
Conditions to avoid No further releva	vant information available.	
Incompatible materials:		
Oxidizing agents Heat		
Hazardous decomposition products	:ts:	
Carbon monoxide and carbon dioxide	e	
Boron oxide		
1 Toxicological information		-
•		
Information on toxicological effects Acute toxicity: No effects known.	ts	
Acute toxicity: No effects known. LD/LC50 values that are relevant fo	ier classification: No data	
Skin irritation or corrosion: Causes	es skin irritation.	
Eye irritation or corrosion: Causes	s serious eye irritation.	
Sensitization: No sensitizing effects	s known.	
Germ cell mutagenicity: No enecis r	s known. nadequate for an assessment of human carcinogenic potential.	
Reproductive toxicity: No effects kn	(NOWN.	
Specific target organ system toxici	city - repeated exposure: No effects known.	
Specific target organ system toxici	city - single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known Subacute to chronic toxicity: No eff	offects known.	
Additional toxicological informatio	on: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	_
2 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant	t information available.	
Persistence and degradability No fu Bioaccumulative potential No furthe	iurther relevant information available.	
Bioaccumulative potential No furthe Mobility in soil No further relevant in	or relevant information available.	
Additional ecological information:		
General notes:		
Avoid transfer into the environment.	rge quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessme	nent	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further rele	event information available	
3 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, loca	cal or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be	be made according to official regulations.	
4 Transport information		
-		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
•		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
	Νυί αμμικανισ	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
	(Conto	

(Contd. on page 4)

USA

