

SAFETY DATA SHEET

Creation Date 05-Aug-2011

Revision Date 24-Dec-2021

Revision Number 2

1. Identification

Product Name

6-(tert-Butoxycarbonylamino)pyridine-3-boronic acid pinacol ester

Cat No. :

AC444660000, AC444660010, AC444660050

CAS No **Synonyms**

6-(N-BOC-amino)pyridine-3-boronic acid pinacol ester **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use. Uses advised against

910462-31-6

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
6-(tert-Butoxycarbonylamino)pyridine-3-boronic acid pinacol ester		910462-31-6	>95		
	4. Firs	t-aid measures			
General Advice	If symptoms persist	t, call a physician.			
Eye Contact	Rinse immediately medical attention.	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute medical attention.			
Skin Contact	Wash off immediate call a physician.	ely with plenty of water for at leas	t 15 minutes. If skin irritation persists,		
Inhalation	Remove to fresh air symptoms occur.	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention i symptoms occur.			
Ingestion	Clean mouth with w symptoms occur.	vater and drink afterwards plenty	of water. Get medical attention if		

Most important symptoms and	None reasonably foreseeab	ole.	
effects			
lotes to Physician	Treat symptomatically		
	5. Fire-fightin	g measures	
Suitable Extinguishing Media	Carbon dioxide (CO 2). Pow	der.	
Insuitable Extinguishing Media	No information available		
Flash Point	No information available		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Imp Sensitivity to Static Discharg			
Sensitivity to Static Discharg			
	2	ignition.	
lazardous Combustion Product Carbon monoxide (CO). Carbon die Protective Equipment and Preca as in any fire, wear self-contained protective gear.	s oxide (CO ₂). Oxides of boron. Ni utions for Firefighters	trogen oxides (NOx).	ved or equivalent) and full
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Hazardous Combustion Product: Carbon monoxide (CO). Carbon die Protective Equipment and Preca As in any fire, wear self-contained protective gear. NEPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Cl Jp Handling	s poxide (CO ₂). Oxides of boron. Ni utions for Firefighters breathing apparatus pressure-de Flammability 1 <u>6. Accidental rel</u> Ensure adequate ventilation formation. Should not be released into Information. Itean Sweep up and shovel into s containers for disposal. <u>7. Handling a</u> Wear personal protective en- get in eyes, on skin, or on c Keep containers tightly clos To maintain product quality.	trogen oxides (NOx). emand, MSHA/NIOSH (approv Instability 0 ease measures n. Use personal protective equ the environment. See Sectio suitable containers for disposa and storage quipment/face protection. Ensibility and in	Physical hazards N/A uipment as required. Avoid dust n 12 for additional Ecological al. Keep in suitable, closed sure adequate ventilation. Do no nhalation. Avoid dust formation.

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	203 - 205 °C / 397.4 - 401 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	insoluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C16 H25 B N2 O4
Molecular Weight	320.20

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moisture. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂), Oxides of boron, Nitrogen oxides (NOx)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

	11. Toxico	ological info	ormation				
Acute Toxicity							
Product Information Component Information	No acute toxicity information is available for this product						
Toxicologically Synergistic Products	No information available						
	nd immediate effects as well as chronic effects from short and long-term exposure						
Irritation	No information ava	ailable					
Sensitization	No information ava	ailable					
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.		
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
6-(tert-Butoxycarbonyl 910462-31-6 amino)pyridine-3-boro nic acid pinacol ester	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information ava	ailable					
Reproductive Effects	No information ava	ailable.					
Developmental Effects	No information ava	ailable.					
Teratogenicity	No information ava	ailable.					
STOT - single exposure STOT - repeated exposure	Respiratory syster None known	n					
Aspiration hazard	No information ava	ailable					
Symptoms / effects,both acute and delayed	No information ava	ailable					
Endocrine Disruptor Information	No information ava	ailable					
Other Adverse Effects	Other Adverse Effects The toxicological properties have not been fully investigated.						
	12. Ecol	ogical infor	mation				
<u>Ecotoxicity</u> Do not empty into drains.							
Persistence and Degradability	Insoluble in water						
Bioaccumulation/ Accumulation	No information available.						
Mobility	Is not likely mobile in the environment due its low water solubility.						
	13. Dispo	sal conside	erations				
Waste Disposal Methods	13. Disposal considerations Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.						
		sport inform	mation				
DOT TDG	Not regulated Not regulated						

IATA IMDG/IMO	Not regulated Not regulated	
	15. Regulatory information	

Not applicable

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
6-(tert-Butoxycarbonylamino)pyridi ne-3-boronic acid pinacol ester	910462-31-6	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
6-(tert-Butoxycarbonylamino)pyridi	910462-31-6	-	-	-	-	-		-	-	-
ne-3-boronic acid pinacol ester										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
6-(tert-Butoxycarbonylamino)p yridine-3-boronic acid pinacol ester	910462-31-6	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

	for Major Accident Notification	for Safety Report Requirements		
6-(tert-Butoxycarbonylamino)p yridine-3-boronic acid pinacol ester	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	05-Aug-2011 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS