



1	Identification
	Product identifier Product name: Indole-4-boronic acid pinacol ester
	Stock number: H52325
	CAS Number: 388116-27-6
	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 Few: 900-322
	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) The substance is not classified according to the Globally Harmonized System (GHS).
	Hazards not otherwise classified No information known.
	Label elements GHS label elements Not applicable
	Hazard pictograms Not applicable Signal word Not applicable
	Hazard statements Not applicable WHMIS classification Not controlled
	Classification system HMIS ratings (scale 0-4)
	(Hazardouš Materials Identification System)
	Pre 1 Flammability = 1 Reactivity [1] 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:
	388116-27-6 Indole-4-boronic 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 immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
	After swallowing Seek medical treatment. Information for doctor
	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:
	Vitrogen oxides (NOX)
	Nilrögen oxides (NOX) Boron oxide Possibly Hydrogen cyanide (HCN)
	Advice for firefighters
	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.
6	
0	Accidental release measures Personal precautions, protective equipment and emergency procedures
	Wear protective equipment. Keep unprotected persons away.
	Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.
	Prevention of secondary hazards: No special measures required.

Prevention of secondary hazards: No special measures required.

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Potoronoo to other contiene		(Contd. of page 1)			
Reference to other sections See Section 7 for information on safe han See Section 8 for information on persona	ndling				
See Section 13 for disposal information	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. Store in cool, dry place in tightly closed co	containers.				
Information about protection against e	Information about protection against explosions and fires: No information known.				
Conditions for safe storage, including Storage Requirements to be met by storeroom					
Information about storage in one comr Further information about storage con	ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions:				
Keep container tightly sealed.	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.				
Specific end use(s) No further relevant i	information available.				
8 Exposure controls/personal protect					
Additional information about design of Properly operating chemical fume hood d	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.				
Control parameters					
Additional information: No data					
Exposure controls Personal protective equipment Concret protective and hydiopic mass					
General protective and hygienic measures The usual precautionary measures for ha	ures andling chemicals should be followed.				
The usual precautionary measures for ha Keep away from foodstuffs, beverages ar Remove all soiled and contaminated cloth Wash hands before breaks and at the end	na reea. thing immediately. Del of work				
Maintain an ergonomically appropriate wo Breathing equipment: Use suitable resp	nd of work. orking environment. pirator when high concentrations are present.				
Protection of hands: Impervious gloves					
Check protective gloves prior to each use The selection of suitable gloves not only of	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.				
Penetration time of glove material (in n Eye protection: Safety glasses	Penetration time of glove material (in minutes) Not determined				
Body protection: Protective work clothing.					
9 Physical and chemical properties					
Information on basic physical and che General Information	imical properties				
	Solid White				
Odor:	Not determined				
	Not determined. Not applicable.				
Change in condition	Not determined				
Boiling point/Boiling range:	Not determined Not determined Not determined				
Flammability (solid, gaseous)	Not determined Not determined				
Decomposition temperature:	Not determined Not determined Not determined.				
Danger of explosion:	Product does not present an explosion hazard.				
Explosion limits: Lower:	Not determined				
Vabor pressure:	Not determined Not applicable.				
Density: Relative density	Not determined Not determined.				
Vapor density	Not applicable. Not applicable.				
Solubility in / Miscibility with					
Partition coefficient (n-octanol/water):	Not determined : Not determined.				
Viscosity: dynamic: kinomatic:	Not applicable.				
kinematic: Other information	Not applicable. No further relevant information available.				
10 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 to dangerous reactions known					

Inermal decomposition / conditions to be avoided: Decomposition 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

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Boron oxide Possibly Hydrogen cyanide (HCN)	(Contd. of page 2)			
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: 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.				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
14 Transport information Not a hazardous material for transportation.				
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es) DOT, ADR, IMDG, IATA Class None				
Packing group DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod Transport/Additional information:	le Not applicable. Not dangerous according to the above specifications.			
DOT	Not dangerous according to the above specifications.			
Marine Pollutant (DOT):	No			
15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and substance is not listed. Prop 65 - Developmental toxicity and the Substance is not listed. Prop 65 - Developmental toxicity and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. S				
(Contd. on page 4) USA –				

Product name: Indole-4-boronic acid pinacol ester

(Contd. of page 3) The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department
Date of preparation / last revision 11/24/2015 / Abbreviations and acronyms:

RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: Thermational Air Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO)
IMDG: International Aint Transport des for Dangerous Goods
DOT: US Department of Transportation
IATA: International Aint Transport Association
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (ICAO)
WHIMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
VPWB: very Persistent and very Bioaccumulative
ACGIH: American Cherence of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMF: National Toxicology Program (USA)
IATE: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

USA