



Reviewed on 10/2	21/2011
1 Identification	
Product identifier	
Product name: Indole-6-boronic acid	
Stock number: H53313 CAS Number:	
147621-18-9 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	
\wedge	
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/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
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.	
P305+P351+P338 IF IN EYES: Rinše 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	
$\widehat{\mathbf{T}}$	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY 1 Physical Házard = 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: 147621-18-9 Indole-6-boronic acid	
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 tréatment.	
(Contd. on	USA USA

Product name: Indole-6-boronic acid (Contd. of page 1) 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: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Boron oxide Possibly Hydrogen cyanide (HCN) 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 material to be released to the environment without proper governmental permits. 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 Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. 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: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from air. **Further information about storage conditions:** Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **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: 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid context with the owne and ching 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 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. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: White Odor: Odor threshold: Not determined Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: 177-181 °C (351-358 °F) (Contd. on page 3)

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Product name: Indole-6-boronic acid	1	
		ontd. of page 2)
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower: Upper: Vapor pressure: Density:	Not determined Not determined Not applicable. Not determined	
Relative density Vapor density Evaporation rate	Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not determined	
Viscosity: dynamic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
Conditions to avoid No further relevant Incompatible materials: Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available.	
Boron oxide Possibly Hydrogen cyanide (HCN)		
Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known.	in irritation. ious eye irritation. wn. quate for an assessment of human carcinogenic potential. n.	
2 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 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 releval		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
		ntd. on page 4)

Product name: Indole-6-boronic acid	
Packing group	(Contd. of page 3)
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/	78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information	
Safety, health and environmental regulations/legislatio GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
\wedge	
\sim	
GHS07	
 P304+P340 IF INHALED: Remove person to tresh a P405 Store locked up. P501 Dispose of contents/container in accord National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be us product must not be used for commercial purposes or in fo. SARA Section 313 (specific toxic chemical listings) Sul California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by tech Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67 a market and use must be observed. 	ing/eye protection/face protection. r for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. lance with local/regional/national/international regulations. tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This rmulations for commercial purposes. bstance is not listed. . is not listed.
Substance is not listed. Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess	risation for use) Substance is not listed.
16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dange (CAD: International Civil Audition Organization	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user. ereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA