



1 Identification Product identifier
Product identifier Product name: 6-Fluoropyridine-3-boronic acid
Stock number: L20387
CAS Number: 351019-18-6
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 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
GHS07
Signal word Warning
Hard statements H315 Causes skin irritation.
H319 Causes serious eve 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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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. 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
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1
REACTIVITY I 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:
351019-18-6 6-Fluoropyridine-3-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 treatment. (Contd. on page 2)
USA

Product name: 6-Fluoropyridine-3-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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) 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 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 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. 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. 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: Not required. 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 context with the everage and exin 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 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: Crystalline powder White Color: Not determined Odor: Odor threshold: Not determined. Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 177-178 °C (351-352 °F) (dec) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

Product name: 6-Fluoropyridine-3-boronic acid

Product name: 6-Fluoropyridine-3-	(Contd. of page
Decomposition temperature: Auto igniting:	Not determined
Auto iginiting: Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water Viscosity: dynamic: kinematic: Other information	Not determined. Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not determined. Not applicable. Insoluble pr): Not determined. Not applicable. Not
10 Stability and reactivity	
Possibility of hazardous reactions I Conditions to avoid No further releva Incompatible materials: Oxidizing ag Hazardous decomposition products Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Boron oxide	s to be avoided: Decomposition will not occur if used and stored according to specifications. No dangerous reactions known ant information available. jents s:
Reproductive toxicity: No effects kn Specific target organ system toxicit Specific target organ system toxicit Aspiration hazard: No effects known Subacute to chronic toxicity: No eff Subacute to chronic toxicity: Boron affects the central nervous syst coma. The temperature may become	r classification: No data skin irritation. serious eye irritation. known. dequate for an assessment of human carcinogenic potential. own. ty - repeated exposure: No effects known. ty - single exposure: May cause respiratory irritation.
12 Ecological information Toxicity Aquatic toxicity: No further relevant is Persistence and degradability No fu Bioaccumulative potential No further Mobility in soil No further relevant im Additional ecological information: General notes: Do not allow material to be released to Avoid transfer into the environment. Results of PBT and vPvB assessme PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	irther relevant information available. r relevant information available. formation available. the environment without proper governmental permits. ent
Uncleaned packagings:	al or national regulations to ensure proper disposal. made according to official regulations.
14 Transport information Not a hazardous material for transport	tation.
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
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Product name: 6-Fluoropyridine-3-boronic acid		
	(Contd. of page 3	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/7		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
5 Regulatory information		
Safety, health and environmental regulations/legislatior GHS label elements The product is classified and labeled i Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P304+P340 IF INHALED: Remove person to fresh ai P405 Store locked up. P501 Dispose of contents/container in accorda National regulations This product is not listed in the U.S. Environmental Protectio to research and development only. This product must be us product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techn Other regulations, limitations and prohibitive regulation Substance of Very High Concern (SVHC) according to the	ng/eyė protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted red by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. bistance is not listed. is not listed. listed. listed. listed. 1 1 1 1 1 1 1 1	
information to ensure proper use and protect the health and	nt to other information gathered by them, and should make independent judgement of suitability of this I safety of employees. This information is furnished without warranty, and any use of the product not in nbination 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: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Vorkplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CAS: Contential Algorithment of Governmental Industrial Hygienists (USA) QSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: Intermational Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	USA	