



1 Identification
Product identifier
Product name: 2-Fluoro-3-methylpyridine-5-boronic acid Stock number: H64157
Stock number: H64157 CAS Number: 904326-92-7
904320-92-7 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 Eisber Scientific Chemicals, Inc.
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 burgingen bourg (Mandau Friday, Sam Zam FST), and (200) 242,0000, After normal burgingen
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)
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 Hazard 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. 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.
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.
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
(Ţ)
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 1 Health (acute effects) = 1 PRE 1 $Flammability = 1$
REACTIVITY Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment PDT Not applicable
PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances
CAS# Description: 904326-92-7 2-Fluoro-3-methylpyridine-5-boronic acid
4 First-aid measures
Description of first aid measures After inhalation Supply track are liferatived, provide artificial respiration. Keep patient warm
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
Seek infiniediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.
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(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 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. 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: 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 Personal protective equipment General protective and hygienic measures 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 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 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. **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: Powder Color: Off-white Not determined Odor: Odor threshold: Not determined.

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Ignition temperature:	Not determined
Decomposition temperature:	Not determined Not determined.
Auto igniting: Danger of explosion:	Not determined.
Explosion limits:	
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate Solubility in / Miscibility with	Not applicable.
Water:	Not determined
Partition coefficient (n-octanol/water) Viscosity:	. Not determined.
dynamic: kinematic:	Not applicable. Not applicable.
Other information	No applicable.
10 Stability and reactivity	
Reactivity No information known.	mended storage conditions
Thermal decomposition / conditions t	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Re Conditions to avoid No further relevan	
Incompatible materials: Oxidizing ager	nts
Hazardous decomposition products: Carbon monoxide and carbon dioxide	
Hvdrogen fluoride	
Nitrogen oxides Boron oxide	
11 Toxicological information	
11 Toxicological information Information on toxicological effects	
Acute toxicity: No effects known.	
LD/LC50 values that are relevant for on Skin irritation or corrosion: Causes sh	Iassification: No data
Eye irritation or corrosion: Causes se	rious eye irritation.
Sensitization: No sensitizing effects kn	own
Carcinogenicity: EPA-I: Data are inade	own. equate for an assessment of human carcinogenic potential.
Reproductive toxicity: No effects know	vn.
Specific target organ system toxicity	- repeated exposure: No effects known. - single exposure: May cause respiratory irritation.
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	ts 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 inf Persistence and degradability No furth	ormation available.
Bioaccumulative potential No further r	ier relevant information available. elevant information available.
Mobility in soil No further relevant infor	mation available.
Additional ecological information: General notes:	
Do not allow undiluted product or large of Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.
Results of PBT and vPvB assessmen	t
PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further releva	ant information available.
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local of	or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be m	ade according to official regulations
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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
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex	r II of MARPOL73/78 and the IBC Code Not applicable.
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Product name: 2-Fluoro-3-methylpyridine-5-boronic acid		
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Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
I5 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
 P405 Store locked up. P501 Dispose of contents/containee National regulations This product is not listed in the U.S. Environmer to research and development only. This product product must not be used for commercial purpos This product is not listed on the Canadian Dome SARA Section 313 (specific toxic chemical lis California Proposition 65 Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Subst Information about limitation of use: For use o Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed. 	ective clothing/eyé protection/face protection. ly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. in to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. estic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). istings) Substance is not listed. 'Substance is not listed. bstance is not listed. bstance is not listed.	
16 Other information Employers should use this information only as a information to ensure proper use and protect the conformance with this Material Safety Data Shee	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in set, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing De Date of preparation / last revision 11/24/2015 Abbreviations and acronyms: ADR: Accord européen sur le transbort des marchandises dang	epartment	
DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C LCS0: Lethal concentration, 50 percent	emical Society) Canada)	
ADSU: Letinal 0059, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	enists (USA)	