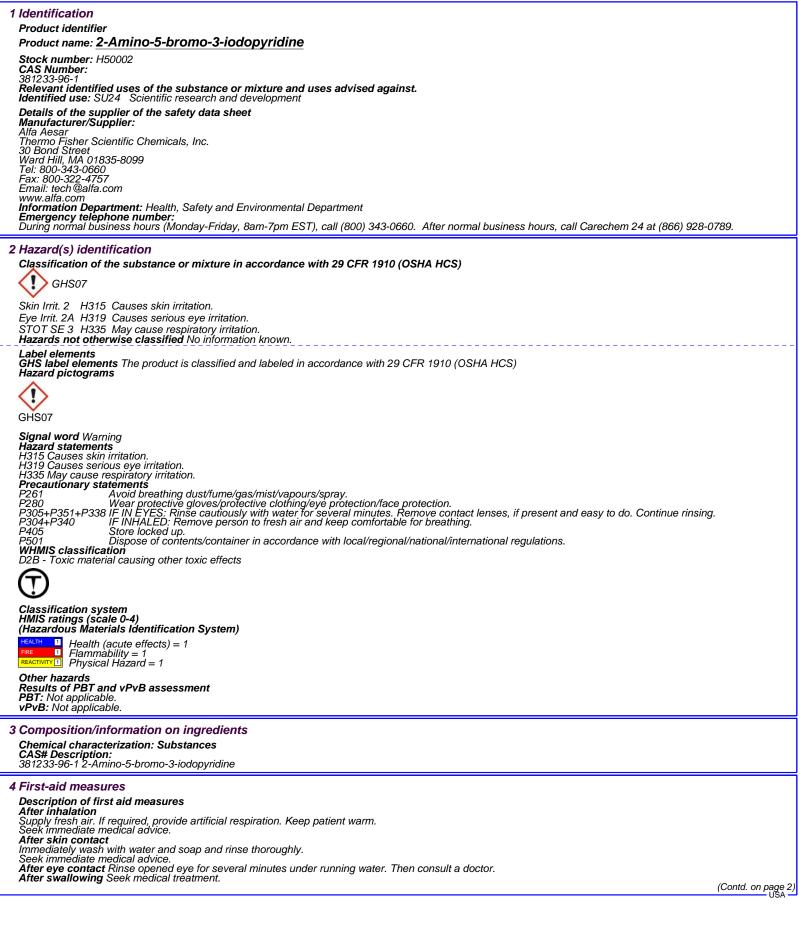


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Amino-5-bromo-3-iodopyridine

(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 iodide (HI) Hydrogen bromide (HBr) Nitrogen oxides (NOx) 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: Powder Color: Brown 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: Not determined Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

Product name: 2-Amino-5-bromo-3-iodopyridine

Product name: 2-Amino-5-bromo-3-			
Decomposition temperature:	Not determined	(Contd. of page 2)	
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable. Not determined		
Density: Relative density	Not determined Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water)	Not determined): Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recom	mended storage conditions		
Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions No Conditions to avoid No further relevan	nt information available.		
Incompatible materials: Oxidizing age Hazardous decomposition products:	nts		
Carbon monoxide and carbon dioxide			
Hydrogen iodide (HI) Hydrogen bromide Nitrogen oxidee			
Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known.			
LD/LC50 values that are relevant for o			
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	erious eye irritation.		
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	nown.		
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know Specific target organ system toxicity	r - repeated exposure: No effects known.		
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: May cause respiratory irritation.		
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
12 Ecological information			
Aquatic toxicity: No further relevant int	Toxicity Aquatic toxicity: No further relevant information available.		
Persistence and degradability No furth Bioaccumulative potential No further	her relevant information available. relevant information available.		
Mobility in soil No further relevant info Additional ecological information:	rmation available.		
General notes:			
Do not allow material to be released to t Do not allow undiluted product or large	the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.		
Avoid transfer into the environment. Results of PBT and vPvB assessmen			
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 Uncleaned packagings:	or national regulations to ensure proper disposal.		
Recommendation: Disposal must be m	nade according to official regulations.		
14 Transport information	the second s		
Not a hazardous material for transportat	lion.		
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.	(Contd. on page 4)	

(Contd. on page 4)

USA -

	(Contd. of page
Transport in bulk according to Annex II of MARPOL7	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	A1-
Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations/legislat GHS label elements The product is classified and labele Hazard pictograms	t ion specific for the substance or mixture ed in accordance with 29 CFR 1910 (OSHA HCS)
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/va P280 Wear protective gloves/protective clot P305+P351+P338 IF IN EYES: Rinse cautiously with wa P304+P340 IF INHALED: Remove person to fresh P405 Store locked up.	apours/spray. thing/eye protection/face protection. ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a air and keep comfortable for breathing.
P501 Dispose of contents/container in acco National regulations This product is not listed in the U.S. Environmental Prote to research and development only. This product must be product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) S California Proposition 65	Substance is not listed.
Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not liste Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is n Information about limitation of use: For use only by te Other regulations, limitations and prohibitive regulations	ed. s not listed. not listed. chnically qualified individuals. ions
Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Auth Chemical safety assessment: A Chemical Safety Asses	o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ⁷ and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t norisation for use) Substance is not listed. ssment has not been carried out.
information to ensure proper use and protect the health a	nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not 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: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Socie HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal Concentration, 50 percent	t ty)
VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)