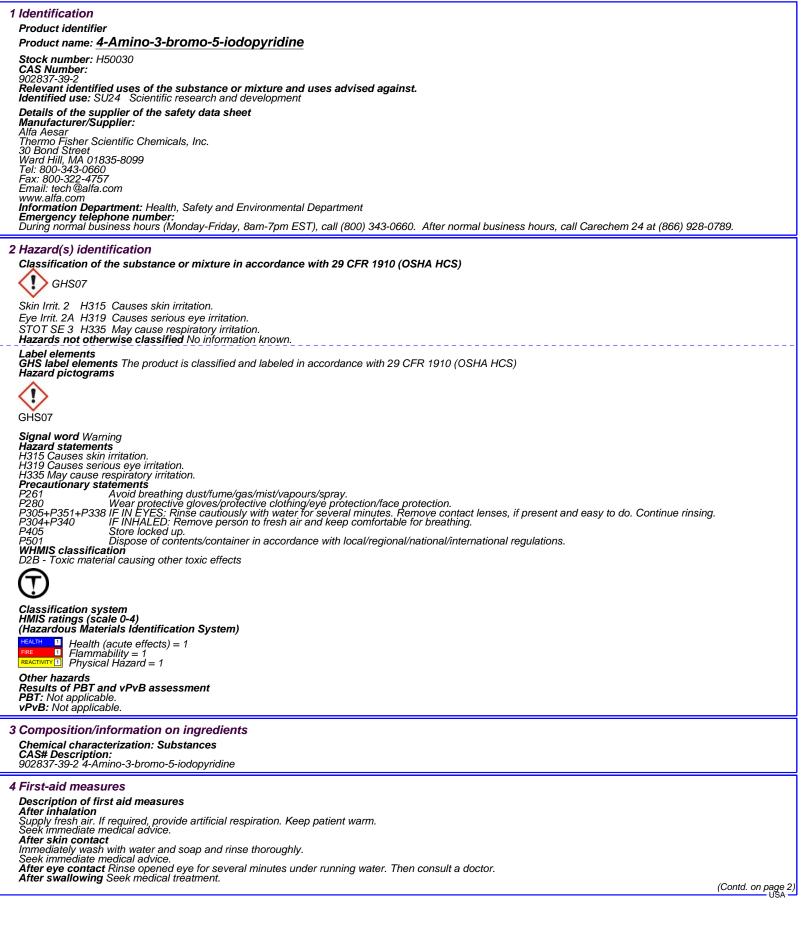


Safety Data Sheet per OSHA HazCom 2012



Product name: 4-Amino-3-bromo-5-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 Nitrogen oxides (NOx) Hydrogen bromide (HBr) Hydrogen iodide (HI) 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: Solid Color: Tan 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: 4-Amino-3-bromo-5-iodopyridine

Page 3/4 Printing date 11/24/2015 Reviewed on 10/20/2006

Decomposition temperature: Auto igniting:		(Contd. of page 2
	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density Vapor density	Not determined.	
Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water): 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 recomn Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	to be avoided: Decomposition will not occur it used and stored according to specifications. o dangerous reactions known t information available.	
Hydrogen bromide Hydrogen iodide (HI) 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known.		
Reproductive foxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	rious eye irritation. own. own on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes:	her relevant information available. relevant information available.	
Do not allow material to be released to th	he 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 assessment PBT: Not applicable.	t	
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(Contd. on page 4)

USA -

Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable. Transport Additional Information: Not dangerous according to the above specifications. DT Marine Pollutant (DOT): No Regulatory Information Safety, healt hand environmental regulations/legislation specific for the substance or mixture GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Haard pictory and Safety, healt hand environmental regulations/legislation specific for the substance or mixture GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Haard pictory and Safety, healt hand environmental regulations/legislation specific for the substance or mixture GMS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Haard pictory and Safety, healt hand environmental regulations/legislation specific for the substance or mixture GMS label elements The product is dissolved with the second statements This Coauses software pictory for the substance in accordance with 29 CFR 1910 (OSHA HCS) Haard pictory attements Page 14 Hair Pictory attempts Page 14 Hair Pictory att		(Contd. of page
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P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective glows/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: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product must be used by or directly under the supervision of a technical ly qualified individual as defined by TSC/spraduct must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity, temale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, Imitation of use: For use only by technically qualified individuals. Other regulations (regulations or restrictions according to Article 67 and Annex XIVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance	1335 May cause respiratory irritation.	
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This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product 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 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. California Proposition 65 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. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, plac 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. Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitabilit information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the prod 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/- Abbrevisions and acromymes: MDG: International Manime Code for Dangerous Goods DOT: US Department of Transportation AT in memotional within Transp	P304+P340 IF INHALED: Remove person to fresh	air and keep comfortable for breathing.
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OSHA: Occupational Safety and Health Administration (USÅ)	DSHA: Occupational Safety and Health Administration (USA)	

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