



	Reviewed on 03/05/2007	
1	dentification	
	Product identifier	
	Product name: 2-Bromo-5-iodopyridine	
	Stock number: L20016 CAS Number: 73290-22-9	
	Relevant identified uses of the substance or mixture and uses advised against. dentified 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	
	Nard Hill, MA 01835-8099 Tel: 800-343-0660	
	Fax: 800-322-4757 Email: tech@alfa.com	
	ww.alfa.com nformation 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.	ļ
	Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07	
	\checkmark	
	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 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. P285 P291 F. NL/FCP. Dire exited with weten every and secure an	
	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	
	\mathbf{D}	
	Classification system HMIS ratings (scale 0-4)	
	Hazardou's Materials Identification System)	
	File Flammability = 1 Reactivity 1 Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
	PBT: Not applicable. /PvB: Not applicable.	
3	Composition/information on ingredients	ĺ
	Chemical characterization: Substances CAS# Description:	
	73290-22-9 2-Bromo-5-iodopyridine	ļ
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	
	mmediately 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	<u>'</u>

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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 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: Crystalline Color: White 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: 123-124 °C (253-255 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

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roduct name: 2-Bromo-5-iodopyrid		1ewea on 03/05/2007		
		(Contd. of page 2)		
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Product does not present an explosion hazard. Not determined Not determined			
Vapor pressure: Density:	Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Insoluble			
Partition coefficient (n-octanol/water). Viscosity:				
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
) Stability and reactivity				
Reactivity No information known	it information available.			
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
2 Ecological information Toxicity	formation available			
Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t	her relevant information available. relevant information available.			
Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva				
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
4 Transport information Not a hazardous material for transportati UN-Number	tion.			
DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)	None			
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		
		, = or an on page		

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Product name: 2-Bromo-5-iodopyridine				
	(Contd. of page			
Transport in bulk according to Annex II of MARPOL73/78 and the I	IBC Code Not applicable.			
Transport/Additional information:	Not dangerous according to the above specifications.			
DOT Marine Pollutant (DOT):	No			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for the substance or mixture 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 eye irritation. H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye prote P305+P351+P338 IF IN EYES: Rinse cautiously with water for several P304+P340 IF INHALED: Remove person to fresh air and keep P405 Store locked up. P501 Dispose of contents/container in accordance with lo National regulations This product is not listed in the U.S. Environmental Protection Agency to research and development only. This product must be used for commercial purposes or in formulations for SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, speale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, according to the REACH Prop 65 - Developmental toxicity according to the REACH Prop 65 - Developmental toxicity according to the REACH Prop 65 - Developmental toxicity according to the REACH Prop 65 - Developmental toxicity according to the REACH Prop 65 - Developmental toxicity according to the REACH	ection/face protection. I minutes. Remove contact lenses, if present and easy to do. Continue rinsing. comfortable for breathing. pocal/regional/national/international regulations. Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte rectly under the supervision of a technically qualified individual as defined by TSCA. This for commercial purposes. to t listed. I. Iffied individuals. I Regulations (EC) No. 1907/2006. Substance is not listed. XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the XVII of the Regulation (EC) No. 1907/2006.			
Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in				
Information to eristile proper use and protect the relating and safety of e conformance with this Material Safety Data Sheet, or in combination wi 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 Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent devine the and Health Administration (USA) NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) IARC: International Agency (USA)	ith any other product or process, is the responsibility of the user.			