



Reviewed on U9/U0/2000
1 Identification
Product identifier Product name: 6-Bromo-2-chloro-[1,8]naphthyridine
Stock number: H50043
CAS Number: 902837-40-5
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
www.ana.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)
CHS07
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
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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/sprav
P201 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 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: 902837-40-5 6-Bromo-2-chloro-[1,8]naphthyridine
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.
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Product name: 6-Bromo-2-chloro-[1,8]naphthyridine (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 chloride (HCl) 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

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Product name: 6-Bromo-2-chloro-[r,ojnapnuryndine			
Decomposition temperature:	Contd. of p	bage 2)		
Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.			
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density Vapor density	Not determined. Not applicable.			
Evaporation rate Solubility in / Miscibility with	Not applicable.			
Water:	Not determined			
Partition coefficient (n-octanol/water Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recon	nmended storage conditions.			
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known				
Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents				
Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Nitrogen oxides				
Hydrogen bromide Hydrogen chloride (HCl)				
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 s Eye irritation or corrosion: Causes s	erious eye irritation.			
Sensitization: No sensitizing effects ki Germ cell mutagenicity: No effects ki	nown.			
Carcinogenicity: No classification data Reproductive toxicity: No effects kno	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity	y - repeated exposure: No effects known.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	y - single exposure: May cause respiratory irritation.			
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 in	nformation available			
Persistence and degradability No fur Bioaccumulative potential No further	ther relevant information available.			
Mobility in soil No further relevant information available.				
Additiónal ecological information: General notes:				
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.				
Avoid transfer into the environment.				
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further relev	/ant information available.			
13 Disposal considerations				
Waste treatment methods Recommendation Consult state, local	l or national regulations to ensure proper disposal.			
Uncleaned packagings: Recommendation: Disposal must be i	made according to official regulations.			
14 Transport information				
Not a hazardous material for transporta	ation.			
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			
Environmental hazards:	Note Note Note Note			
Special precautions for user	Not applicable.			
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Product name: 6-Bromo-2-chloro-[1,8]naphthyridine			
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Transport in bulk according to Annex II of MARPOL73/78 a	and the 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 s GHS label elements The product is classified and labeled in a Hazard pictograms	pecific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS)		
GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation.			
P405 Store locked up.	eyé protection/face protection. r several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. nd keep comfortable for breathing.		
National regulations ¹ This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in formu SARA Section 313 (specific toxic chemical listings) Substa California Pronosition 65	ance is not listed.		
Prop 65 - Chemicals known to cause cancer Substance is r Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not li Prop 65 - Developmental toxicity, male Substance is not list Information about limitation of use: For use only by technic	isted. ed. ally qualified individuals.		
Substance of Verý High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisa Chemical safety assessment: A Chemical Safety Assessmel	REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ation for use) Substance is not listed. In thas not been carried out.		
information to ensure proper use and protect the health and sa	o other information gathered by them, and should make independent judgement of suitability of this afety of employees. This information is furnished without warranty, and any use of the product not in ination 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 Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent UDS0: Lethal dose, 50 percent VPUB: 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) NTP: National Toxicology Program (USA)			

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)