

Safety Data Sheet per OSHA HazCom 2012

	Reviewed on 06/28/2006
1 Identification	
Product identifier	
Product name: <u>5-Bromo-2-chloropyrimidine</u>	
Stock number: L18360 CAS Number:	
32779-36-5 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 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)	
GHS07	
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 aloves/protective clothing/eve protection/face protection.	Continuo ringing
P305+P351+P338 IF IN EYES: Rinše cautiously with water for several minutes. Remove contact lenses, if present and easy to do. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	. Commue mising.
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 FIRE I Flammability = 1 REACTIVITY 1 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:	
32779-36-5 5-Bromo-2-chloropyrimidine	
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.	
-	(Contd. on page 2) USA

Product name: 5-Bromo-2-chloropyrimidine	
Information for doctor	(Contd. of page 1)
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 chloride (HCI) Hydrogen bromide (HBr) 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 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 solied 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. Protective of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves selection the interval. Not determined Eye protection: Protective will contrive of glove material (in minutes) Not determined Eye protection: Protective will conting. 	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Crystalline powder Color: White Odor: Not determined Odor threshold: Not determined. pH-value: Not applicable. Change in condition 77-80 °C (171-176 °F) Boiling point/Beiling range: 95 °C (203 °F) (15 mmHg)	
Sublimation temperature / start: Not determined Flash point: Not applicable Flash point: Not determined. Ignition temperature: Not determined.	(Contd. on page 3) USA

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		(Contd. of page 2)
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Insoluble): Not determined. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known	nt information available. ents	
Reproductive toxicity: No effects know Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. prous eye irritation. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. • - 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 furthe Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. nt	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportati	tion.	
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 Environmental bazards:	None Not applicable	
Environmental hazards: Special precautions for user	Not applicable. Not applicable.	
		(Contd. on page 4)

USA -

oduct name: 5-Bromo-2-chloropyrimidine	
	(Contd. of page
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
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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)
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\checkmark	
GHS07	
Signal word Warning	
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P305+P351+P338 IF IN EYES: Rinse cautiously with water for P304+P340 IF INHALED: Remove person to fresh air a	r several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	ce with local/regional/national/international regulations.
National regulations	
to research and development only. This product must be used	Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric I by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in formu SARA Section 313 (specific toxic chemical listings) Substa	ulations for commercial purposes.
California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance is n 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	isted.
Information about limitation of use. For use only by technica	ally qualified individuals
Other regulations, limitations and prohibitive regulations Substance of Verv 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 a market and use must be observed.	Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Authorisa Chemical safety assessment: A Chemical Safety Assessmer	ition for use) Substance is not listed. Int has not been carried out.
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6 Other information Employers should use this information only as a supplement to	o other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the health and sa	afety of employees. This information is furnished without warranty, and any use of the product not ir ination with any other product or process, is the responsibility of the user.
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Date of preparation / last revision 11/24/2015/ -	
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 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)	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
IMD6: 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) LC50: Lethal concentration, 50 parcent LD50: Lethal concentration, 50 parcent 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	
USHA: Uccupational Safety and Health Administration (USA)	

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