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1 Identification Product identifier
Product name: <b>3-Bromopyridine</b>
Stock number: A12894, L01590
CAS Number:
626-55-1 <b>EC number:</b>
210-952-0
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)
GHS06 Skull and crossbones
Acute Tox. 3 H311 Toxic in contact with skin.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
Flam. Liq. 4 H227 Combustible liquid. 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
GHS06
Signal word Danger Hazard statements
H227 Combustible liquid.
H302+H332 Harmful if swallowed or if inhaled. H311 Toxic in contact with skin.
H315 Causes skin irritation. H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statements P280 Wear protective gloves / protective clothing. 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. P309 IF exposed or if you feel unwell:
P310 Immédiately calí a POISON CENTER/doctor/physician WHMIS classification
B3 - Combustible liquid
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
HEALTH     2       FIRE     2       FIRE     2
Reactivity Physical Hazard = 1
Other hazards Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

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Product name: 3-Bromopyridine

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3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 626-55-1 3-Bromopyridine Concentration: ≤100% Identification number(s): EC number: 210-952-0	
<ul> <li>4 First-aid measures</li> <li>Description of first aid measures</li> <li>After inhalation</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm.</li> <li>Seek immediate medical advice.</li> <li>After skin contact</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>Seek immediate medical advice.</li> <li>After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>After swallowing Seek medical treatment.</li> <li>Information for doctor</li> <li>Most important symptoms and effects, both acute and delayed</li> <li>Causes skin irritation.</li> <li>Harmful if swallowed.</li> <li>Toxic in contact with skin.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>Indication of any immediate medical attention and special treatment needed No further relevant information available.</li> </ul>	
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) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
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: Keep ignition sources away. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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 awa'y from foodstuffs, beverages and feĕd.	(Contd. on page 3) USA

## Product name: 3-Bromopyridine

(Contd. of page Remove all soiled 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. **Recommended filter device for short term use:** Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). **Protection of hands:** 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. **Material of gloves** Fluorocarbon rubber (Viton) **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

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Information on basic physical and che General Information Appearance: Form: Odor:	emical properties Liquid Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-27 °C (-17 °F) 172-174 °C (342-345 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	72 °C (162 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure at 25 °C (77 °F): Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 25 °C (77 °F): Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined 2.33 hPa (2 mm Hg) 1.617 g/cm³ (13.494 lbs/gal) Not determined. Not determined. 31 g/l Not determined. Not determined.	

## 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hudrogen bromide Hydrogen bromide 11 Toxicological information Information on toxicological effects Acute toxicity:

	Harmful if inhaled.
	Harmful if swallowed.
	Toxic in contact with skin.
	Danger through skin absorption.
	LD/LC50 values that are relevant for classification: No data
	Skin irritation or corrosion: May cause irritation
	Eye irritation or corrosion: May cause irritation
	Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.
	Germ cen mutagementy. No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
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	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.
I	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.
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(Contd. of page 3) 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to o	ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN2810	
UN proper shipping name DOT ADR IMDG, IATA	Toxic, liquids, organic, n.o.s. (3-Bromopyridine) 2810 Toxic, liquids, organic, n.o.s. (3-Bromopyridine) TOXIC LIQUID, ORGANIC, N.O.S. (3-Bromopyridine)	
Transport hazard class(es) DOT Class Label ADR	6.1 Toxic substances 6.1	
Class Label IMDG, IATA	6.1 (T1) Toxic substances 6.1	
Class Label	6.1 Toxic substances 6.1	
Packing group DOT, ADR, IMDG, IATA	<i>III</i>	
Environmental hazards:	Not applicable.	
Special precautions for user Stowage Category Stowage Code	Warning: Toxic substances A SW2 Clear of living quarters.	
Transport in bulk according to Annex II of MARPOL73/78 and	I the IBC Code Not applicable.	
Transport/Additional information:		
DOT Quantity limitations	On passenger aircraft/rail: 60 L	
Marine Pollutant (DOT):	On cargo aircraft only: 220 L No	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
UN "Model Regulation":	UN 2810 TOXIC, LIQUIDS, ORGANIC, N.O.S. (3-BROMOPYRIDINE), 6.1, III	
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		

GHS06

**Signal word** Danger **Hazard statements** H227 Combustible liquid. H302+H332 Harmful if swallowed or if inhaled.

(Contd. on page 5) USA H311

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Toxic in contact with skin. Causes skin irritation. Causes serious eye irritation. H315 H319

H335 May cause respiratory irritation. Precautionary statements

Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/physician

P310 Immediately call a POISON CENTER/doctor/physician National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity 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, placing on the 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.

## 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 conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Information of ensure with this 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/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acromys:
Apper Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
MDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
EUNECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
UCS): Lethal concentration, 50 percent
DS0: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
PVV8: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
IMF: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)
IARC: International Agency for Research on Cancer
EPA: Convommental Protection Agency (USA)
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 3: Acute toxicity – Category 2
Eye Int: 24: Serious eye damage/eye inflation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3