



1 Identification	
Product identifier	
Product name: 4-(Bromoacetyl)pyridine hydrobromide	
Stock number: H32285 CAS Number:	
5349-17-7	
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	
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	0790
During normal business nours (Monday-Phday, 6am-1pm EST), can (600) 343-0660. Alter normal business nours, can Carechem 24 at (660) 926	-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Even Dam. 1 H318 Causes serious eve damage. 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	
GHS05	
Signal word Danger	
Hazard statements H314 Causes severe skin burns and eye damage.	
Precautionary statements	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P310 Immediately call a POISON CENTER/doctor/	ng.
WHMIS classification D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH B Health (acute effects) = 3 FIRE D 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:	
5349-17-7 4-(Bromoacetyl)pyridine hydrobromide	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product. 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.	
Information for doctor	
Most important symptoms and effects, both acute and delayed Causes severe skin burns.	
Causes serious eye damage.	(Contd. on page 2)
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Product name: 4-(BromoacetyI)pyridine hydrobromide

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Indication of any immediate medical attention a	and special treatment needed No further relevant information available.	(Contd. of page 1)
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, e Special hazards arising from the substance or If this product is involved in a fire, the following car Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen bromide (HBr) Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. mixture n be released:	
6 Accidental release measures Personal precautions, protective equipment an Wear protective equipment. Keep unprotected per Ensure adequate ventilation Environmental precautions: Do not allow materin Methods and material for containment and clear Use neutralizing agent. Dispose of contaminated material as waste accord Ensure adequate ventilation. Prevention of secondary hazards: No special m Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection See Section 13 for disposal information.	rsons away. ial to be released to the environment without proper governmental permits. a ning up: ding to section 13. neasures required.	
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 explosion Conditions for safe storage, including any inco Storage Requirements to be met by storerooms and red Information about storage in one common stor Store away from oxidizing agents. Store away from strong bases. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed contain Specific end use(s) No further relevant information	ns and fires: No information known. compatibilities ceptacles: No special requirements. rage facility: mers.	
Control parameters Components with limit values that require mon Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling ch Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing imm Wash hands before breaks and at the end of work Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working en Breathing equipment: Use suitable respirator wh Protection of hands: Impervious gloves	for hazardous chemicals and having an average face velocity of at least 100 feet per minute. nitoring at the workplace: Not required. nemicals should be followed. ediately. wironment. nen high concentrations are present. • proper condition. on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties		
Information on basic physical and chemical pro General Information	operties	
Appearance: Form: Powder Color: Pale yell	low .	
Odor: Weak Odor threshold: Not deter		
pH-value: Not appli	icable.	
Change in condition Melting point/Melting range: ca 200 °(Boiling point/Boiling range: Not dete	C (ca 392 °F) (dec) rmined	(Contd. on page 3)

Product name: 4-(Bromoacetyl)pyridine hydrobromide

Product name: 4-(Bromoacetyl)pyridine hydrobromide		
	(Contd. of page 2)	
Sublimation temperature / start: Not determined Flammability (solid, gaseous) Not determined.		
Ignition temperature: Not determined		
Decomposition temperature: Not determined Auto igniting: Not determined.		
Danger of explosion: Product does not present an explos	ion hazard.	
Explosion limits: Lower: Not determined		
Upper: Not determined		
Vapor pressure: Not applicable. Density: Not determined		
Relative density Not determined. Vapor density Not applicable.		
Evaporation rate Not applicable. Solubility in / Miscibility with		
Water: Soluble		
Partition coefficient (n-octanol/water): Not determined. Viscosity:		
dynamic: Not applicable. kinematic: Not applicable.		
Other information No further relevant information avail	lable.	
0 Stability and receivity		
0 Stability and reactivity Reactivity No information known.		
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will no		
Possibility of nazardous reactions ino dangerous reactions known	it occur if used and stored according to specifications.	
Conditions to avoid No further relevant information available. Incompatible materials:		
Oxidizing agents		
Bases Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
Nitrogen oxides Hydrogen bromide Possibly Hydrogen cyanide (HCN)		
1 Toxicological information		
Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth an	d throat and to the danger of perforation of esophagus and stomach.	
LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns.		
Eye irritation or corrosion: Causes serious eye damage.		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.		
Carcinogenicity: No classification data on carcinogenic properties of this ma Reproductive toxicity: No effects known.	aterial is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - repeated exposure: No effects known Specific target organ system toxicity - single exposure: No effects known	own.	
Aspiration hazard: No effects known	1.	
Subacute to chronic toxicity: Inorganic bromides may produce depression, emaciation and in severe case	s, psychosis and mental deterioration. Bromoderma, a bromide rash, often occurs when on the face and resembles acne and furunculosis.	
bromide inhalation or administration' is prolonged. This rash is usually found Subacute to chronic toxicity: No effects known.	on the face and resembles acne and furunculosis.	
Additional toxicological information: To the best of our knowledge the act	ite and chronic toxicity of this substance is not fully known.	
2 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 material to be released to the environment without proper gover		
Do not allow undiluted product or large quantities to reach ground water, wate Avoid transfer into the environment.	er coursé or sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable.		
vPvB: Not applicable.		
Other adverse effects No further relevant information available.		
3 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prop	ner disposal	
Uncleaned packagings:		
Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents).	
4 Transport information		
UN-Number		
DOT, IMDG, IATA	UN3261	
UN proper shipping name DOT		
IMDG, IATA	Corrosive solid acidic ordanic n o s (4-(Bromoacetvi)) ovridine hvdropromide)	
	Corrosive solid, acidic, organic, n.o.s. (4-(Bromoacetyl)pyridine hydrobromide) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-(Bromoacetyl)pyridine hydrobromide)	

(Contd. on page 4)

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Fransport hazard class(es)	
ООТ	
Nass	8 Corrosive substances.
abel Nass	8 8 (C1) Corrective substances
abel	8 (C4) Corrosive substances 8
ŃĎĠ, IATA	
Class	8 Corrosive substances.
abel	8
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
pecial precautions for user Segregation groups	Warning: Corrosive substances Acids
ransport in bulk according to Annex II of MARPOL73	3/78 and the IBC Code Not applicable.
ransport/Additional information:	
ΟΟΤ	
larine Pollutant (DOT):	No
IN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (4-(Bromoacetyl)pyridine hydrobromide), 8, II
Regulatory information	
afety, health and environmental regulations/legislati GHS label elements The product is classified and labeled	ion specific for the substance or mixture



Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P280 Wear pro Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/... National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted 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. This 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 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, female 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. National regulations market and use must be observed. Substance is not liste 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 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 11/23/2015 / -

Date of preparation / last revision 11/23/2015/ -Abbreviations and acronyms: RD: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IAA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Civil Aviation Organization ICAO: International Anitime Code for Dangerous Goods by Road) IDA: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IDA: International Maritime Code for Dangerous Goods DOT: US Department of Transportation ITA: International Anitime Code for Dangerous Goods DOT: US Department of Transportation ITA: International Anitime Code (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LSO: Lethal concentration, 50 percent L90: Lethal concentration, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Cology Program (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)