



1 Identification Product identifier Product name: 2-Bromoethylamine hydrobromide Stock number: A17625, L01811 **CAS Number:** 2576-47-8 EC number: 219-924-2 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 Details of the supplier of the safety da 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.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 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. 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 Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. Precautionary statements P261 Avoid bre P280 Wear pro

 Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapours/spray.

 P280
 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 victim to fresh air and keep at rest in a position comfortable for breathing.

 P362
 Take off contaminated clothing and wash before reuse.

 P363
 Wash contaminated clothing before reuse.

 P321
 Specific treatment (see on this label).

 P403+P233
 Store locked up.

 P405
 Store in a well-ventilated place. Keen container tightly closed

 Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. P403+P233 P501 WHMIS classification D2B - Toxic material causing other toxic effects T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2 1 Flammàbility = 1 EACTIVITY D 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: 2576-47-8 2-Bromoethylamine hydrobromide

(Contd. on page 2)

Identification number(s): EC number: 219-924-2

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. Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. May cause an allergic skin reaction

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) Advice for firefighters Protective equipment: Wear self-contained respirator.

6 Accidental release measures

Wear fully protective impervious suit.

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:** Dispose of contaminated material as waste according to section 13. 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 Handle under dry protective gas. 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 water/moisture. Store away from oxidizing agents. Store away from oxidizing agents. **Further information about storage conditions:** Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. **Store from during ()** hutther relevant information al 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

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 contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

(Contd. of page 1)

Product name: 2-Bromoethylamine hydrobromide

Recommended filter device for short		(Contd. of page 2)		
	PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to o	determine if air-		
purifying respirators are appropriate. Or	ly use equipment tested and approved under appropriate government standards.			
Protection of hands: Impervious aloves				
Check protective gloves prior to each us	e for their proper condition.			
The selection of suitable gloves not only Material of gloves Nitrile rubber, NBR	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Penetration time of glove material (in	minutes) 480			
Penetration time of glove material (in Glove thickness 0.11 mm				
Eye protection: Safety glasses Body protection: Protective work clothi	na			
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information				
Appearance:				
Form:	Crystalline powder			
Odor: Odor threshold:	Not determined Not determined.			
pH-value:	Not applicable.			
Change in condition				
Melting point/Melting range:	172-176 °C (342-349 °F)			
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined			
Flammability (solid, gaseous)	Not determined			
Ignition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits:				
Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density:	Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with				
Water: Partition coefficient (n-octanol/water).	Not determined			
Viscosity:	Not determined.			
dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
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:				
Water/moisture Oxidizing agents				
Hazardous decomposition products:				
Carbon monoxide and carbon dioxide				
Nitrogen oxides				

Hydrogen bromide

11 Toxicological information

Information on toxicological effects

Acute toxicity: Harmful if swallowed. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. 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.

Eye irritation or corrosion: Causes serious eye irritation. Sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. 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: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

oduct name: 2-Bromoethylamine hydrobromide	
Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground 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.	(Contd. of page
Other adverse effects No further relevant information available.	
B Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to o Uncleaned packagings: Recommendation: Disposal must be made according to official offi	
Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	
DOT, ADN, IMDG, IATA Transport hazard class(es)	Not applicable
DOT, ADR, ADN, IMDG, IATA	
Class Packing group	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and	Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
GHS07	
Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/s P280 Wear protective gloves/protective clothing/eye P305+P351+P338 IF IN EYES: Rinse cautiously with water for se P304+P340 IF INHALED: Remove victim to fresh air and k P362 Take off contaminated clothing before reuse. P321 Specific treatment (see on this label). P403 P233 Store locked up. P403+P233 Store in a well-ventilated place. Keep container P501 Dispose of contentis/container in accordance w Mational regulations All components of this product are listed in the U.S. Environmenta All components of this product are listed on the Canadian Non-Do SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. <	 protection/face protection. everal minutes. Remove contact lenses, if present and easy to do. Continue rinsing. evep at rest in a position comfortable for breathing. er tightly closed. with local/regional/national/international regulations. al Protection Agency Toxic Substances Control Act Chemical substance Inventory. ore substances List (NDSL). e is not listed. is not listed. is qualified individuals. EACH Regulations (EC) No. 1907/2006. Substance is not listed. in for use) Substance is not listed.
6 Other information Employers should use this information only as a supplement to ot information to ensure proper use and protect the health and safet	ther information gathered by them, and should make independent judgement of suitability of this ty of employees. This information is furnished without warranty, and any use of the product not in ion with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Departme Date of preparation / last revision 09/22/2016 / -

Product name: 2-Bromoethylamine hydrobromide

Product name: 2-Bromoetnylamine hydrobromide	
Construct name: 2-Bromoetnylamine nydrobromide (Construct name: 2-Bromoetnylamine nydrobromide) (Construct name: 2-Bromoetnylamine nyd	ontd. of page 4)
OSHA: Occupational Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	USA