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	Version 2
1 Identification	
Product identifier Product name: 3-Bromobenzyl bromide	
Stock number: A15075, L07322 CAS Number:	
823-78-9 EC number:	
212-519-1 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 Tol: \$200.242, 0660	
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:	
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) 928-078	39.
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.	
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified Lachrymator	
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 P260 Do not breathe dusts or mists. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. 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 E - Corrosive material	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE 1 FRE 1 FRACTIVITY 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: 823-78-9 3-Bromobenzyl bromide Concentration: ≤100% Identification_number(s):	
EC number: 212-519-1	
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.	Contd on page 2)
((Contd. on page 2) USA

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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 even damage. This product is a lachrymator. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media 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 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: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation 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 12 for dispace information See Section 13 for disposal information. Protective Action Criteria for Chemicals **PAC-1:** Substance is not listed **PAC-2:** 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: No information known. Conditions for safe storage, including any incompatibilities Storage 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 equipment 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.

Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Breathing equipment:** Use suitable respirator when high concentrations are present. **Recommended filter device for short term use:** Use a respirator with type P100 (USA) or P3 (EN 143) cartridges 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. **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. **Eve protection:**

Eye protection: Tightly sealed goggles Full face protection

Safety glasses with side shields / NIOSH (US) or EN 166(EU)

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Body protection: Protective work cloth	ing.	(Contd. of page 2)
9 Physical and chemical propertie	; ;	
Information on basic physical and ch General Information Appearance:	emical properties	
Form: Odor: Odor threshold:	Crystalline Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	40-44 °C (104-111 °F) 128-130 °C (262-266 °F) (12mm Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	>110 °C (>230 °F) Not determined. Not determined Not determined. Not determined.	
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined	
Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined Not applicable. 1.56 g/cm³ (13.018 lbs/gal) Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water, Viscosity:		
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information a	vailable.
Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide	nts	
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Eye irritation or corrosion: This product is a lachrymator. Causes serious eye damage. Sensitization: No sensitizing effects kr Germ cell mutagenicity: No effects kr	classification: No data evere skin burns. own. own. on carcinogenic properties of this on repeated exposure: No effects	
Aspiration indeand, 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.		
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Avoid transfer into the Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	elevant information available. mation available. environment. t	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local	or national regulations to ensure p	roper disposal. (Contd. on page 4

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Uncleaned packagings:	(Contd. of page
Recommendation: Disposal must be made according to official regulations.	
4 Transport information	
UN-Number DOT, IMDG, IATA	UN1759
UN proper shipping name DOT ADR IMDG, IATA	Corrosive solids, n.o.s. (3-Bromobenzyl bromide) 1759 Corrosive solids, n.o.s. (3-Bromobenzyl bromide) CORROSIVE SOLID, N.O.S. (3-Bromobenzyl bromide)
Transport hazard class(es) DOT	
Class Label ADR	8 Corrosive substances 8
Class Label	8 (C10) Corrosive substances
	0
Class Label	8 Corrosive substances 8
Packing group DOT, ADR, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Stowage Category	Warning: Corrosive substances F-A,S-B A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	de Not applicable.
Transport/Additional information: DOT	
Quantity limitations Marine Pollutant (DOT):	On passenger aircraft/rail: 15 kg On cargo aircraft only: 50 kg No
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 1759 CORROSIVE SOLIDS, N.O.S. (3-BROMOBENZYL BROMIDE), 8, II
i Regulatory information Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with Hazard pictograms GHS05 Signal word Danger	substance or mixture 29 CFR 1910 (OSHA HCS)
Hazard statements Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dusts or mists. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated cl P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. If P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regiv Mational regulations	

P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
 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.
 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.

USA

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(Contd. of page 4) 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.

Conformance 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 acronym: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances 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
 UBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concem VPVB: very Persistent and very Bioaccumulative ACGHH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA)
 MF: National Toxicology Program (USA)
 IAF: National Toxicology Program (USA)
 IAF: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1