



1 Identification		
Product identifier		
Product name: 2-Bromo-N,N-dimethylaniline		
Stock number: B25564 CAS Number: 698-00-0		
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 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.		
GHS07		
Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye 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		
GHS06		
Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.		
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P361 Take off immediately all contaminated clothing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		
WHMIS classification 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 I HEALTH I FRE I 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:		
698-00-0 2-Bromo-N,N-dimethylaniline		

USA (Contd. on page 2)

(Contd. on page 3)

Pro	oduct name: 2-Bromo-N,N-dimethylaniline	
		(Contd. of page 1)
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 Methemoglobinemia 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. 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: 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: No special measures required. Reference to other sections See Section 7 for information on personal protection equipment. See Section 7 for disposal information. 	
7	<i>Handling Handling Precautions for safe handling Keep container tightly sealed.</i> Store in cool, dry place in tightly closed containers. <i>Ensure good ventilation at the workplace. Information about protection against explosions and fires:</i> No information known. Conditions for safe storage, including any incompatibilities Storage <i>Requirements to be met by storerooms and receptacles:</i> No special requirements. <i>Information about storage conditions: Further information about storage conditions:</i> Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. <i>Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Specific end use(s)</i> No further relevant information available.	
	B 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 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 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. Protection of hands: Impervious gloves Check protective gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	
9	Physical and chemical properties Information on basic physical and chemical properties	
	General Information Appearance: Form: Liquid	
		(Contd. on page 3)

Product name: 2-Bromo-N,N-dimethylaniline

Product name: 2-Bromo-N,N-dimeth	ylaniline				
		ontd. of page 2)			
Color:	Colorless to pale yellow				
Odor: Odor threshold:	Not determined Not determined.				
pH-value:	Not determined.				
Change in condition					
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 108 °C (226 °F) (14mm Hg) Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined				
Auto igniting:	Not determined Not determined.				
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined				
Upper:	Not determined				
Vapor pressure: Density at 20 °C (68 °F):	Not determined 1.388 g/cm³ (11.583 lbs/gal)				
Relative density Vapor density	Not determined. Not determined.				
Evaporation rate	Not determined.				
Solubility in / Miscibility with Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.					
Viscosity: dynamic:	Not determined.				
kinematic:	Not determined.				
Other information	No further relevant information available.				
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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: 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 inhaled. Toxic in contact with skin. Toxic in contact with skin. Toxic if swallowed. Danger through skin absorption. 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. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer. 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 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 governmental permits. 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	ar notional regulations to another measure there at				
Recommendation Consult state, local o	or national regulations to ensure proper disposal. (Cc	ontd. on page 4) USA			

Reviewed on 12/15/2008				
Product name: 2-Bromo-N,N-dimethylaniline				
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3)			
14 Transport information Not a hazardous material for transportation.				
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	None			
Environmental hazards:	Not applicable.			
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.			
Transport in burk according to Annex if of MARPOL73/78 and the IBC Code Transport/Additional information:	Not applicable. Not dangerous according to the above specifications.			
DOT	°°°,			
Marine Pollutant (DOT):	No			
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 H301+H311 Toxic if swallowed or in contact with skin. H32 Harmful if inhaled. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes skin irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P361 Take off immediately all contaminated clothing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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 c				
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. Substance is not listed. 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 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 / -				
Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (R IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ICAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal cose, 50 percent 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 EPA: Environmental Protection Agency (USA)	- USA			