

# Safety Data Sheet per OSHA HazCom 2012

Reviewed on 12/18/2009
1 Identification
Product identifier
Product name: 2-Bromo-4-methylaniline
Stock number: A13818, L07331 CAS Number:
583-68-6 <b>EC number:</b>
209-515-7
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
Ward Hill, MA 01835-8099 Tel: 800-343-0660 F_ax: 800-322-4757
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
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. H315 Causes skin irritation.
H319 Causes serious eye 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/ P302+P352 IF ON SKIN: Wash with plenty of water/
P310 P310 P310 P310 P310 P310 P310 P310
WHMIS classification D1A - Very 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 $2$ Health (acute effects) = 2
PIRE     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:
583-68-6 2-Bromo-4-methylaniline Identification number(s): EC number: 209-515-7
EC number: 209-515-7
USA (Contd. on page 2)

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## Product name: 2-Bromo-4-methylaniline

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4 First-aid measures	
Description of first aid measures General information	
Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration.	
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. <b>After eye contact</b> Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Do not induce vomiting; immediately call for medical help. 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 (NOV)	
Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Hydrogen bromide (HBr)	
Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation <b>Environmental precautions:</b> Do not allow material to be released to the environment without proper governmental permits.	
<b>Methods and material for containment and cleaning up:</b> Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
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 8 for information on personal protection equipment. See Section 13 for disposal information.	
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	
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. <b>Specific end use(s)</b> 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: 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 soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Store protective clothing separately.	
Store protective clothing separately. Avoid contact with the eyes and skin.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. <b>Breathing equipment:</b> Use suitable respirator when high concentrations are present.	
Protection of hands: Impervious aloves	
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. Eye protection: Safety glasses	
Body protection: Protective work clothing.	USA
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9 Physical and chemical properties	S	
Information on basic physical and ch		
General Information		
Appearance:		
Form: Color:	Liquid Yellow	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	14-16 °C (57-61 °F) 240-242 °C (464-468 °F)	
Boiling point/Boiling range:	240-242 °C (464-468 °F)	
Sublimation temperature / start:	Not determined	
Flash point:	> 110 °C (> 230 °F)	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density at 20 °C (68 °F):	1.494 g/cm <sup>3</sup> (12.467 lbs/gal)	
Relative density	1.494 g/cm³ (12.467 lbs/gal) Not determined.	
Vapor density	Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water)	): Not determined.	
Viscosity:	Net determined	
dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen bromide Possibly Hydrogen cyanide (HCN)	<b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications. o dangerous reactions known nt information available. nts	
11 Toxicological information Information on toxicological effects Acute toxicity: Toxic in contact with skin. Toxic if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for Children to the state of th	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 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 - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Other information (about experimental toxicology): Mutagenic effects have been observed on tests with bacteria. Subacute to chronic toxicity:		
Additional toxicological information:	e formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly 's or longer. ' 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 furt Bioaccumulative potential No further I Mobility in soil No further relevant info. Additional ecological information: General notes:	ther 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.

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13 Disposal considerations         Waste treatment methods         Recommendation Consult state, local or national regulations to ensure proper disposal.         Uncleaned packagings:         Recommendation: Disposal must be made according to official regulations.         14 Transport information         UN-Number         DOT, IMDG, IATA       UN2810	
UN-Number	
UN-Number	
UN proper shipping name	
DOT Toxic, liqui	ids, organic, n.o.s. (2-Bromo-4-methylaniline) QUID, ORGANIC, N.O.S. (2-Bromo-4-methylaniline)
Transport hazard class(es)	
DOT	
Trace	
	substances.
Label 6.1 Class 6.1 (T1) To	pxic substances
Label 6.1 IMDG, IATA	
$\sim$	
Class 6.1 Toxic s Label 6.1	substances.
Packing group	
DOT, IMDG, IATA III Environmental hazards: Not applica	ahla
Special precautions for user Warning: T	Toxic substances
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applica	able.
Transport/Additional information: DOT	
Marine Pollutant (DOT): No	
UN "Model Regulation": UN2810, T	Foxic, liquids, organic, n.o.s. (2-Bromo-4-methylaniline), 6.1, III
GHS06 Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove co P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor/ P302+P352 IF ON SKIN: Wash with plenty of water/ National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic All components of this product are listed on the Canadian Non-Domestic Substances List (N SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxicity male Substance is not listed. Prop 65 - Developmental toxi	Substances Control Act Chemical substance Inventory.
Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations	<b>lo. 1907/2006.</b> Substance is not listed. n (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
The conditions of restrictions according to Article <sup>6</sup> 7 and Annex XVII of the Regulation market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is no Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Other information Employers should use this information only as a supplement to other information gathered b information to ensure proper use and protect the health and safety of employees. This infor conformance with this Material Safety Data Sheet, or in combination with any other product of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	by them, and should make independent judgement of suitability of this mation is furnished without warranty, and any use of the product not in

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USA

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- Abbreviations and acronyms:

   RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

   IATA-DGR: Dangerous
   Goods Regulations by the "International Air Transport Association" (IATA)

   ICAO: International Civil Aviation Organization
   (VIATA)

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   (VIATA)

   ICAO: International Givil Aviation Organization
   (VICAO)

   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 Association

   EINECS: European Inventory of Existing Commercial Chemical Society)
   EINECS: European Inventory of Existing Commercial Chemical Society)

   HMINS: Hazardous Materials Information System (Canada)
   UCSA)

   L050: Lethal concentration, 50 percent
   EVENT

   L050: Lethal concertant and very Bioaccumulative
   ACGIH: American Chererece of Governmental Industrial Hygienists (USA)

   VPF: very Persistent and very Bioaccumulative
   ICSA)

   VBF: Nearconal Safety and Health Administration (USA)

   NTP: National Toxicology Program (USA)
   IVA)

   VPF: Antional Toxicology Program (USA)
   IVA)

   VBF: