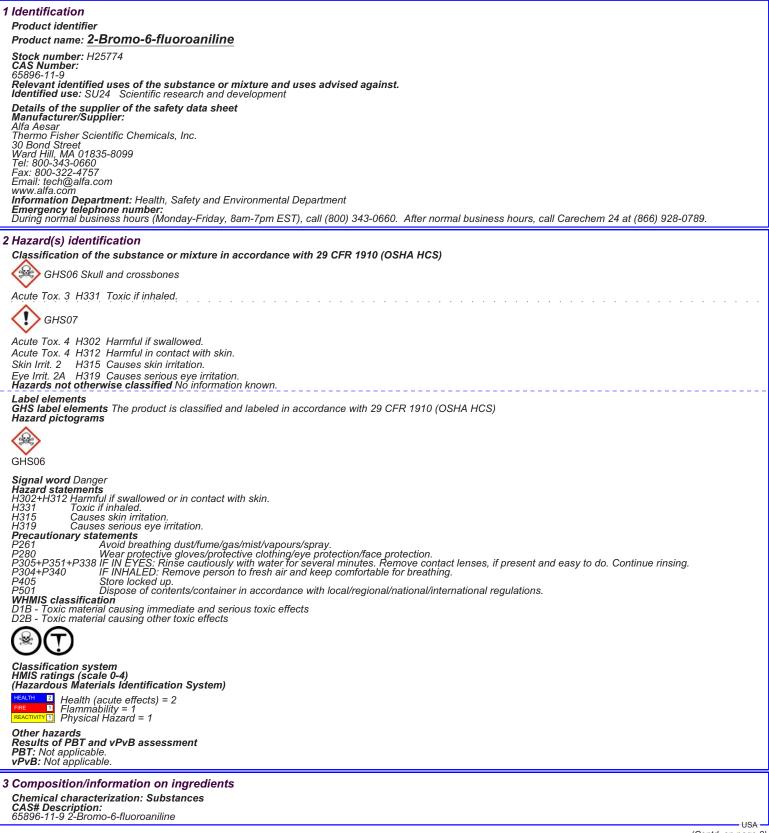


Safety Data Sheet per OSHA HazCom 2012



(Contd. on page 2)

Product name: 2-Bromo-6-fluoroaniline

Product name: 2-Bromo-6-fluoroaniline	
	(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	
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 fluoride (HF) 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 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 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. 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: 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. 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 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.	
The selection of suitable 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.	USA

(Contd. on page 3)

Product name: 2-Bromo-6-fluoroaniline

		(Contd. of page 2)
9 Physical and chemical properties		
Information on basic physical and ch		
General Information Appearance:		
Form: Color:	Liquid	
Odor:	Light yellow Not determined	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F):	Product does not present an explosion hazard. Not determined Not determined 1.674 g/cm³ (13.97 lbs/gal)	
Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined. Not determined. Not determined.	
Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Not miscible or difficult to mix : Not determined. Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
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 fluoride Hydrogen bromide		
11 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful in swallowed. Toxic if inhaled. 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. Germ cell mutagenicity: No effects known. Germ cell mutagenicity: 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. Subacute to chronic toxicity: Mutagenic toxicity: Mutagenic to chronic toxicity: Mutagenic toxicity: Mutageni		
12 Ecological information		
Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen	ner relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ant information available.	

(Contd. of page 3)

	(Contd. of page 3
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regul Uncleaned packagings: Recommendation: Disposal must be made according to	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2810
UN proper shipping name DOT	
ĪMDG, IATA	Toxic, liquids, organic, n.o.s. (2-Bromo-6-fluoroaniline) TOXIC LIQUID, ORGANIC, N.O.S. (2-Bromo-6-fluoroaniline)
Transport hazard class(es) DOT	
Class	6.1 Toxic substances.
Label Class	6.1 6.1 (T1) Toxic substances
Label IMDG, IATA	6.1
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
DOT, IMDG, IATA Environmental hazards:	III Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL	73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2810, Toxic, liquids, organic, n.o.s. (2-Bromo-6-fluoroaniline), 6.1, III
GHS Tabel elements The product is classified and Tabel Hazard pictograms GHS06	ed in accordance with 29 CFR 1910 (OSHA HCS)
Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin H315 Causes skin irritation. H315 Causes skin irritation. H319 Causes serious eye irritation. P261 Avoid breathing dust/fume/gas/mist/v P280 Wear protective gloves/protective clo P305+P351+P338 IF IN EYES: Rinse cautiously with wit P304+P340 P405 Store locked up. P501 Dispose of contents/container in accordiational regulations This product is not listed in the U.S. Environmental Protito research and development only. This product must be product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) and california Proposition 65 Prop 65 - Developmental toxicity, female Substance is not listed prop 65 - Developmental toxicity, female Substance is and listed prop 65 - Developmental toxicity, female Substance is and listed prop 65 - Developmental toxicity and Substance is and prohibitive regulations	vapours/spray. othing/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. sh air and keep comfortable for breathing. ordance with local/regional/national/international regulations. rection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This n formulations for commercial purposes. Substance is not listed. ted. is not listed. ted. is not listed. technically qualified individuals. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. T and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the thorisation for use) Substance is not listed.
information to ensure proper use and protect the health	ment to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not in combination with any other product or process, is the responsibility of the user. (Contd. on page

(Contd. on page 5)

Product name: 2-Bromo-6-fluoroaniline

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(Contd. of page 4)

USA

Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and accompsis 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: Thermational Civil Aviation Organization ICAO: Thermational Maritime Code for Dangerous Goods DOT: US Department of Transport Association IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association IATA: Internation Alternation System (Canada) IC50: Lethal concentration, 50 percent UPV: Very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) INF: National Toxicology Program of USA) INF: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)