

Safety Data Sheet per OSHA HazCom 2012

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		USA USA

Product name: 4-Bromo-3,5-difluoroaniline

Product name: 4-Bromo-3,5-difluoroaniline	
	(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.	
Seek immediate medical advice. After eve contact Rinse opened eve for several minutes under running water. Then consult a doctor.	
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 autimuishing agente Carbon diavide, autimuishing nowder as water aprev. Eight larger fires with water aprev as elected registent from	
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 fluoride (HF)	
Hydrogen filooride (HF) 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: Dispose of contaminated material as waste according to section 13.	
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 8 for information on personal protection equipment. See Section 13 for disposal information.	
7 Handling and storage	
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 comministorage 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	
General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.	
Domovo all poiled and contaminated elething 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.	
Maintain an ergonomically appropriate working environment.	
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. Penetration time of glove material (in minutes) Not determined	
Eve protection: Safety glasses	
Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information	
Appearance:	
Form: Crystalline powder	(Contd. on page 3)
	USA

Product name: 4-Bromo-3,5-difluoroaniline

		(Contd. of page 2)
Color: Odor:	White Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	99-101 °C (210-214 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined	
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	riouaci uoes noi present an explosion nazaru.	
Lower:	Not determined Not determined	
Upper: Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Natapplicable	
kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		

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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen bromide 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful if swallowed. Toxic if inhaled. Toxic ir innaled. 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. Gerr cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic proper

Germicen matagementy: 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 - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: Subacute to chronic toxicity: Aspiration into the body may lead to the formation of methomorphic producing evonesia and method fell in blood processor leading to active 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: 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. Descrifts of PPT and vPVR assessment **PRESUITS 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

Recommendation Consult state, local or national regulations to ensure proper disposal.

(Contd. on page 4)

Product name: 4-Bromo-3,5-difluoroaniline

(Contd. of page 3)

Uncleaned packagings:

4 Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT	Toxic solids, organic, n.o.s. (4-Bromo-3,5-difluoroaniline) TOXIC SOLID, ORGANIC, N.O.S. (4-Bromo-3,5-difluoroaniline)
IMDG, IATA	IOXIC SOLID, ORGANIC, N.O.S. (4-Bromo-3,5-difluoroaniline)
Transport hazard class(es)	
DOT	
1000	
Class Label	6.1 Toxic substances. 6.1
Class	6.1 (T2) Toxic substances
Label IMDG, IATA	6.1
× ×	
Class Label	6.1 Toxic substances. 6.1
	0.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL7	73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine De lintert (DOT):	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (4-Bromo-3,5-difluoroaniline), 6.1, III
GHS06	
P304+P340 IF INHALED: Remove person to fresh P405 Store locked up. P501 Dispose of contents/container in acco National regulations This product is not listed in the U.S. Environmental Prote to 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) S California Proposition 65 Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity, female Substance is Noticity	vapours/spray. othing/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. th air and keep comfortable for breathing. ordance with local/regional/national/international regulations. ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. ed. is not listed.
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Auti Chemical safety assessment: A Chemical Safety Asse 6 Other information Employers should use this information only as a suppler	echnically qualified individuals. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t thorisation for use) Substance is not listed. essment has not been carried out. ment to other information gathered by them. and should make independent iudgement of suitability of this
information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in a Department issuing SDS: Global Marketing Departmer Date of preparation / last revision 11/24/2015 / -	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. nt

Date of preparation / last revision 11/24/2015 / -

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USA

Product name: 4-Bromo-3,5-difluoroaniline

- 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

 ICAO: Trechnical Instructions by the "International Civil Aviation Organization" (ICAO)

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

 IMDG: International Air Transport Association

 IATA: International Air Transport Association

 CAO: Trensportation

 IATA: International Air Transportation

 IATA: International Air Transportation

 IATA: International Air Transport Association

 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

 UPVB: very Persistent and very Bioaccumulative

 ACGHH: American Conference of Governmental Industrial Hygienists (USA)

 OSH: Occupational Safety and Health Administration (USA)

 NTP: National Toxicology Program (USA)

 MAC: International Protection Agency (USA)