

Safety Data Sheet per OSHA HazCom 2012

1	Identification	
	Product identifier	
	Product name: <u>4-Bromo-2,6-difluoroaniline</u>	
(Stock number: B20549 CAS Number:	
	67567-26-4 Relevant identified uses of the substance or mixture and uses advised against.	
	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:	
4	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
	30 Bond Street Ward Hill, MA 01835-8099	
	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:	
1	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.	
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	GHS07	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory 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 Toxic if swallowed. H315 Causes skin irritation.	
	H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
-	H335 May cause respirátory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
Ì	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. 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.	
į	P305+P351+P338 IF IN EYES: Rines cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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)	
ľ	HEALTH I Health (acute effects) = 1	
	FRE 1 Flammàbility = 1 REACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
1	PBT: Not applicable.	
	vPvB: Not applicable.	
	Composition/information on ingredients Chamical characterization: Substances	
(Chemical characterization: Substances CAS# Description: 2767 06 14 Description:	
(67567-26-4 4-Bromo-2,6-difluoroaniline	
	First-aid measures	
	Description of first aid measures After inhalation	
ļ	Supply fresh air. If required, provide artificial respiration. Keep patient warm. (Contd. on page	e 2)
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Product name: 4-Bromo-2,6-difluoroaniline					
		(Contd. of page 1)			
Seek immediate medical advice. After skin contact					
Seek immediate medical advice.	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.				
After eye contact Rinse opened eye for After swallowing Seek medical treatment	r several minutes under running water. Then consult a doctor. ent.				
Information for doctor	s, both acute and delayed Methemoglobinemia				
Indication of any immediate medical a	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 subs	stance or mixture				
If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide	llowing can be released.				
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 equi Wear protective equipment. Keep unprot	ipment and emergency procedures itected persons away.				
Ensure adequate ventilation	low material to be released to the environment without proper governmental permits.				
Methods and material for containment Dispose of contaminated material as was	nt and cleaning up:				
Ensure adequate ventilation. Prevention of secondary hazards: No					
Reference to other sections					
See Section 7 for information on safe had See Section 8 for information on personal	al protection equipment.				
See Section 13 for disposal information.	• • •				
7 Handling and storage					
Handling Precautions for safe handling					
Keep container tightly sealed.	containers				
Store in cool, dry place in tightly closed on Ensure good ventilation at the workplace Information about protection against e	e. explosions and fires: No information known.				
Conditions for safe storage, including	-				
Storage Requirements to be met by storeroom	ns and receptacles: No special requirements.				
Further information about storage con	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents. nditions:				
Keep container tightly sealed. Store in cool, dry conditions in well seale					
Specific end use(s) No further relevant	information available.				
8 Exposure controls/personal prote					
Additional information about design o Properly operating chemical fume hood (of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.				
Control parameters					
Components with limit values that req Additional information: No data	quire monitoring at the workplace: Not required.				
Exposure controls					
Personal protective equipment General protective and hygienic meas	sures				
The usual procedutionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the en	andling chemicals should be followed. and feed.				
Remove all solled and contaminated clot Wash hands before breaks and at the er	thing immediately. nd of work.				
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w	vorking environment.				
Breathing equipment: Use suitable resp Protection of hands:	vorking environment. pirator when high concentrations are present.				
Impervious dioves					
The selection of suitable gloves not only Fve protection: Safety glasses	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.				
Body protection: Protective work clothin	ing.				
9 Physical and chemical properties	;				
Information on basic physical and che General Information	emical properties				
Appearance: Form:	Crystalline powder				
Color:	Light				
Odor: Odor threshold:	Not determined Not determined.				
pH-value:	Not applicable.				
		(Contd. on page 3)			

Product name: 4-Bromo-2,6-difluoroaniline

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Product name: 4-Bromo-2,6-difluoro	aniline	
		(Contd. of page 2)
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	63-65 °C (145-149 °F) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper: Vorer procession	Not determined Not determined	
Vapor pressure: Density: Relative density	Not applicable. Not determined Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Not determined	
Viscosity: dynamic:	Not determined.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen fluoride Hydrogen bromide	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications. dangerous reactions known information available. ts	
Reproductive toxicity: No effects know Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: Absorption into the body may lead to the death. Onset may be delayed 2-4 hours	in irritation. fous eye irritation. own. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	se, coma and possibly
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further n Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Do not allow undivided product or large of	elevant information available	
Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	t i i i i i i i i i i i i i i i i i i i	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
Not a hazardous material for transportati UN-Number DOT, IMDG, IATA	on. None	
	NONE	(Contd. on page 4)

Product name: 4-Bromo-2,6-difluoroaniline (Contd. of page 3) 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 Not applicable Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No

15 Regulatory information

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



GH506
Signal word Danger
Hazard statements
H301 Took: 15 wellowed.
H315 Causes skin initiation.
H315 Causes integratements
P261 Avoid breakting dustfume/gas/mist/vapours/spray.
P306 H315 Causes integratements
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