

Safety Data Sheet per OSHA HazCom 2012

Neviewed of	110/23/2014
1 Identification	
Product identifier Product name: 2-Bromo-6-fluoro-4-methylpyridine	
Stock number: H64449	
CAS Number: 180608-37-1	
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)	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.	
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.	
Hazards not otherwisé 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	
GHS07	
Signal word Warning	
Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2	
Fire I 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: 180608-37-1 2-Bromo-6-fluoro-4-methylpyridine	
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.	
	td. on page 2) USA

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Product name: 2-Bromo-6-fluoro-4-methylpyridine

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 No further relevant information available. 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 Hydrogen fluoride (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 product to reach sewage system or any water course. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No data

Exposure controls

Personal protective equipment

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. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use:

Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands:

Impervious gloves

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. **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:

Color:

Liquid Colorless to pale yellow

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Traduct name 2 Promo 6 fluoro 1	mothylayriding		
roduct name: 2-Bromo-6-fluoro-4-i	methylpyriaine	(Contd. of page 2)	
Odor: Odor threshold:	Not determined		
Odor threshold: pH-value:	Not determined. Not determined.		
Change in condition	NUL determined.		
Melting point/Melting range:	Not determined		
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not determined		
Density:	Not determined		
Relative density Vapor density	Not determined. Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/water)			
Viscosity: dynamic:	Not determined.		
kinematic: Other information	Not determined. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recom	nmended storage conditions. • to be avoided: Decomposition will not occur if used and stored according to specifications.		
Possibility of hazardous reactions Re	Reacts with strong oxidizing agents		
Conditions to avoid No further relevan	nt information available		
Incompatible materials: Oxidizing age Hazardous decomposition products:	ints		
Carbon monoxide and carbon dioxide Hydrogen fluoride			
Nitroaen oxides			
Nitrogen oxides Hydrogen bromide			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity:			
Harmful if inhaled. Harmful in contact with skin.			
Harmful if swallowed. Danger through skin absorption.			
LD/LC50 values that are relevant for o			
Skin irritation or corrosion: Causes sh Eye irritation or corrosion: Causes se	skin irritation.		
Sensitization: No sensitizing effects kn	nown.		
Germ cell mutagenicity: No effects kno			
Reproductive toxicity: No effects know	wn.		
Specific target organ system toxicity Specific target organ system toxicity	y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.		
Aspiration hazard: No effects known.		I	
Subacute to chronic toxicity: No effect Additional toxicological information:	ects known. : To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
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12 Ecological information		l	
Toxicity Aquatic toxicity: No further relevant int	aformation available	l	
Aquatic toxicity: No further relevant inf Persistence and degradability No furth	formation available. ther relevant information available.		
Bioaccumulative potential No further i	relevant information available		
Mobility in soil No further relevant infor Additional ecological information:	rmation available.		
General notes:			
Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	I	
Results of PBT and vPvB assessmen PBT: Not applicable.	ıt		
vPvB: Not applicable.	· · · · ·		
Other adverse effects No further releva	ant information available.		
13 Disposal considerations			
Waste treatment methods			
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:			
Recommendation: Disposal must be m	nade according to official regulations.		
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14 Transport information UN-Number			
UN-NUMBER DOT, ADN, IMDG, IATA	Not applicable		
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Product name: 2-Bromo-6-fluoro-4-methylpyridine				
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UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group DOT, IMDG, IATA	Not applicable			
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:				
DOT				
Marine Pollutant (DOT): UN "Model Regulation":	No			
on moder regulation .				
 15 Regulatory information Safety, health and environmental regulations/legislation specific for the signal labeled elements. The product is classified and labeled in accordance with 2 Hazard pictograms GHS07 Signal word Warning Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H319 Causes serious eye irritation. H335 May cause respiratory irritation. 	ubstance or mixture 29 CFR 1910 (OSHA HCS)			
 16 Other information Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employee conformance with this Material Safety Data Sheet, or in combination with any or Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemen DOT: US Department of Transportation System (USA) WHMIS: Hazardous Materials Identification System (USA) WHMIS: Vortplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPS: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NITP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Construction Agency (USA)	on gathered by them, and should make independent judgement of suitability of this es. This information is furnished without warranty, and any use of the product not in ther product or process, is the responsibility of the user. t concerning the International Carriage of Dangerous Goods by Road) USA			
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