

Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Bromo-6-fluoropyridine

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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.	
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.	
For safety reasons unsuitable extinguishing agents Water with full let.	
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)	
Possibly Hydrogen cyanide (HCN) Hydrogen bromide (HBr)	
Hydroğen fluoride (HF) ´ 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.	
Ensure adequate ventilation	
Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away.	
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. Beneve all exited and explanated elething immediately.	
Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.	
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.	
Breatning 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.	
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	
Eye protection: Safety glasses Body protection: Protective work clothing.	
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9 Physical and chemical properties			
Information on basic physical and ch	emical properties		
General Information			
Form:	Solid		
Color: Odor:	White Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	30-34 °C (86-93 °F) Not determined Not determined		
Flash point:	< 90 °C (< 194 °F)		
Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water) Viagonity	Insoluble : Not determined.		
Viscosity: dvnamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
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 Hydrogen fluoride Possibly Hydrogen cyanide (HCN)	t information available.		
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Toxic in contact with skin. Toxic if swallowed. 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. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Aspiration hazard: No effects known. Augustation hazard: No effects known. Aspiration hazard: No			
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: General notes: Do not allow material to be released to the environment without proper governmental permits. Do not allow underial 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.			
13 Disposal considerations			
Waste treatment methods			
	or national regulations to ensure proper disposal.	(Contd. on page 4,	

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Uncleaned packagings:

Uncleaned packagings: Recommendation: Disposal must be made according to official re	egulations.		
14 Transport information			
UN-Number DOT, IMDG, IATA	UN2811		
UN proper shipping name DOT	Toxic solids, organic, n.o.s. (2-Bromo-6-fluoropyridine) TOXIC SOLID, ORGANIC, N.O.S. (2-Bromo-6-fluoropyridine)		
IMDG, IATA	TOXIC SOLID, ORGANIC, N.O.S. (2-Bromo-6-fluoropyridine)		
Transport hazard class(es) DOT			
Class Label	6.1 Toxic substances. 6.1		
Class Label	6.1 (T2) Toxic substances 6.1		
IMDG, IATA			
Class Label	6.1 Toxic substances. 6.1		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A		
Transport in bulk according to Annex II of MARPOL73/78 and	· · · · · · · · · · · · · · · · · · ·		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	Νο		
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Bromo-6-fluoropyridine), 6.1, III		
GHS06 Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin.			
H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P280 Wear protective gloves / protective clothing.	veral 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/ National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed.			
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically gualified individuals.			
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the RE. The conditions of restrictions according to Article 67 and Anr market and use must be observed. Substance is not listed.	ACH Regulations (EC) No. 1907/2006. Substance is not listed. nex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
Annex XIV of the REACH Regulations (requiring Authorisation Chemical safety assessment: A Chemical Safety Assessment h	n for use) Substance is not listed. as not been carried out.		
information to ensure proper use and protect the health and safety	her information gathered by them, and should make independent judgement of suitability of this y of employees. This information is furnished without warranty, and any use of the product not in on with any other product or process, is the responsibility of the user.		
Date of preparation / last revision 11/24/2015 / - 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) (Control on page			
KIU: Kéglement international concernant le transport des marchandises dangereuses p IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association"	ar chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ion" (IATA) (Contd. on page §		

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- ICAO: International Civil Aviation Organization ICAO-TI: Technical 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 IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstrats 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 USO: Lothal concentration, 50 percent PVPB: very Persistent and very Bioaccumulative ACGIH: American ADstrate and Very Bioaccumulative ACGIH: American Conteration (USA) WTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)

USA

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