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Product name: 2,3-Dibromopyridine	
	(Contd. of page 1)
<ul> <li>4 First-aid measures</li> <li>Description of first aid measures</li> <li>After inhalation</li> <li>Supply fresh air. If required, provide artificial respiration. Keep patient warm.</li> <li>Seek immediate medical advice.</li> <li>After skin contact</li> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>Seek immediate medical advice.</li> <li>After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.</li> <li>After swallowing Seek medical treatment.</li> <li>Information for doctor</li> <li>Most important symptoms and effects, both acute and delayed No further relevant information available.</li> </ul>	
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 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. 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 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 solided 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. Penetration time of glove material (in minutes) Not determined 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: Powder Color: Cream	
	(Contd. on page 3)

## Product name: 2,3-Dibromopyridine

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Product name: 2,3-Dibromopyridine		
		(Contd. of page 2)
Odor: Odor threshold:	Not determined Not determined.	_
	Not determined.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	58-60 °C (136-140 °F) 249-250 °C (480-482 °F)	
Sublimation temperature / start:	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: Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable	
Density:	Not determined	
Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water):	Insoluble	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recomn	mended storage conditions. T <b>o be avoided</b> : Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	and dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	t information available.	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
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 cl	:lassification: No data	
Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes sen	kin irritation.	
Sensitization: No sensitizing effects kno	own.	
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data of	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 -	n. - reneated exposure. No effects known	
Specific target organ system toxicity - Aspiration hazard: No effects known.	<b>- repeated exposure:</b> No effects known. - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not tuily known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant info	ormation available	
Persistence and degradability No furth	her relevant information available.	
Bioaccumulative potential No further re Mobility in soil No further relevant inform	elevant information available. mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	he environment without proper governmental permits. 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 releval	ant information available	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be ma		
14 Transport information Not a hazardous material for transportation	ion.	
		(Contd. on page 4)

Product name: 2,3-Dibromopyridine

## (Contd. of page 3) UN-Number DOT, IMDG, IATA None 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 R GHS06 Signal word Danger Hazard statements H301+H311 Toxic if swallowed or in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. H332 H315 H319 H335 Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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. P361 Take off immediately all contaminated clothing. P405 Stark becked with a point of the packad with packad with a point of the packad with a point of th P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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 restricted This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri 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, female Substance is not listed. Prop 65 - Developmental toxicity, male 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 qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department 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) ICAO: Thermational Civil Aviation Organization ICAO: Thermational Civil Aviation Organization ICAO: Thermational Antime Code for Dangerous Goods by Rail) MDG: International Antime Code for Dangerous Goods DOT: US Department of Transportation ICAO: Schemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (ICAn) ICAO: Lethal concentration, 50 percent USD: Lethal dose, 50 percent VPW is very Persistent and very Bioaccumulative ACGIH: American Chernical Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) IMTP: National Toxicology Program (USA) IATE: National Toxicology Program (USA) IATE: Antional Toxicology Program (USA) IATE: Antional Toxicology Program (USA) USA