

Safety Data Sheet per OSHA HazCom 2012



Product name: 2,4-Dihydroxy-3-nitropyridine

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Product name: 2,4-Dihydroxy-3-nitropyridine		
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.		(Contd. of page 1)
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) 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: 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 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 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. 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		
Color: Y Odor: N	Powder Yellow Vot determined	
	Not determined. Not applicable.	
Change in condition Melting point/Melting range: 2 Boiling point/Boiling range: N	vor applicable. 265 °C (509 °F) (dec) Not determined Not determined	
Flammability (solid, gaseous) N Ignition temperature: N	Vot applicable Not determined. Not determined Not determined	
		(Contd. on page 3) USA

Product name: 2.4-Dihvdroxv-3-nitropvridine

Product name: 2,4-Dihydroxy-3-nitro		iewed on 04/02/2007
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not determined Not determined. Not determined. Not applicable. Soluble): Not determined. Not applicable. Soluble Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.	
10 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: Carbon monoxide and carbon dioxide Nitrogen oxides		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. 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. Carcinogenicity: No effects known. Carcinogenicity: 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: No effects known. 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: 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. 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 Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.		
14 Transport information Not a hazardous material for transportati	tion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA		
Class Packing group	None	
DOT, IMĎG, IÀTA	None	
Environmental hazards:		
Special precautions for user Transport in bulk according to Annex	Not applicable. x II of MARPOL73/78 and the IBC Code Not applicable.	
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Product name: 2,4-Dihydroxy-3-nitropyridine		
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Transport/Additional information: DOT	Not dangerous according to the above specifications.	
Marine Pollutant (DOT):	No	
Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/ P280 Wear protective gloves/protecti P305+P351+P338 IF IN EYES: Rinse cautiously w P304+P340 IF INHALED: Remove person to P405 Store locked up. P501 Dispose of contents/container in National regulations This product is not listed in the U.S. Environmental to research and development only. This product must product must not be used for commercial purposes SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Developmental toxicity, female Substate Prop 65 - Developmental toxicity, female Substater Prop 65 - Developmental toxicit	Inist/vapours/spray. ive clothing/eye protection/face protection. vith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. vith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. o fresh air and keep comfortable for breathing. in accordance with local/regional/national/international regulations. I Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted ust be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This s or in formulations for commercial purposes. ings) Substance is not listed. iot listed. ance is not listed. ance is not listed.	
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Chemical safety assessment: A Chemical Safety	g Authorisation for use) Substance is not listed. / Assessment has not been carried out.	
information to ensure proper use and protect the his conformance with this Material Safety Data Sheet, Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemic HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Can LO50: Lethal dose, 50 percent UD50: Lethal dose, 50 percent CACGIH: American Conference of Governmental Industrial Hygienist OSHI: Occurational Software and Hodh Marineiruting (USA)	cal Society) ada)	
NTP: National Toxicology Program (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	USA	