

# Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloro-6-cyanopyridine

## Identification number(s): EC number: 251-429-7

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. 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

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCl) Hydrogen cyanide (HCN) **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 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

The periods groves 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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## Product name: 2-Chloro-6-cyanopyridine

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9 Physical and chemical properties		
Information on basic physical and ch General Information	emical properties	
Appearance: Form:	Powder	
Color:	White	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
	ногарлаана.	
Change in condition Melting point/Melting range:	85-88 °C (185-190 °F)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start:	Not determined	
Flash point:	Not applicable Not determined.	
Flammability (solid, gaseous)	Not determined	
Ignition temperature: 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:	Not applicable.	
Density:	Not determined	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/water)	Insoluble Not datarmined	
Viscosity:	. Not determined.	
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI) Hydrogen cyanide		
11 Toxicological information Information on toxicological effects		
Acute toxicity: Harmful if inhaled. Harmful if swallowed. Toxic in contact with skin. 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. Carcinogenicity: No effects known. Specific target organ system toxicity - single 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 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.

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## Product name: 2-Chloro-6-cyanopyridine

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## Uncleaned packagings:

Recommendation: Disposal must be made according to of	fficial regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3439
UN proper shipping name DOT IMDG, IATA	Nitriles, solid, toxic, n.o.s. (2-Chloro-6-cyanopyridine) NITRILES, SOLID, TOXIC, N.O.S. (2-Chloro-6-cyanopyridine)
Transport hazard class(es)	
DOT	
10xc	
Class	6.1 Toxic substances.
Label Class Label IMDG, IATA	6.1 6.1 (T2) Toxic substances 6.1
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	<i>III</i>
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Toxic substances
Transport in bulk according to Annex II of MARPOL73/7 Transport/Additional information:	'8 and the IBC Code Not applicable.
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (2-Chloro-6-cyanopyridine), 6.1, III
P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/dc National regulations This product is not listed in the U.S. Environmental Protecti to research and development only. This product must be use product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity, substance is not listed. Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by techn Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to t The conditions of restrictions according to Article 67 ar market and use must be observed. Substance is not listed.	on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. Istance is not listed. is not listed. Itisted. Inically qualified individuals. Is he REACH Regulations (EC) No. 1907/2006. Substance is not listed. Ind Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess 16 Other information	<b>isation for use)</b> Substance is not listed. ment has not been carried out.
Employers should use this information only as a supplement information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in con	nt to other information gathered by them, and should make independent judgement of suitability of this I safety of employees. This information is furnished without warranty, and any use of the product not in nbination 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: Redement international concernant le transport des marchandises dange	reuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DĞR: Dangerous Goods Regulations by the "International Air Transport A ICAO: International Civil Aviation Organization	reuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Association" (IATA)
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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 by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Sérvice (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)