

Safety Data Sheet per OSHA HazCom 2012

1 Meetingation Product inform Product nume: 2.6-Dichloro-3-cyanopyridine Stock nume: Charles Name: Product nume: Stock nume: Charles Name: Product nume: Stock nume: Sto	
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Emergency telephone number: During Individual Business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Image: Control of the substance or mixture in accordance with 20 CFR 1910 (OSHA HCS) Secondary Statements Acute Tox: 4 H302 Harmful if swallowed. Acute Tox: 4 H302 Harmful if swallowed. Acute Tox: 4 H302 Harmful in contact with skin. Acute Tox: 4 H302 Harmful if swallowed. Born Int: 2 H315 Causes skin intelation. Born Int: 2 H315 Causes skin intelation. Form Int: 2 H315 Causes skin intelation. Born Int: 2 H315 Causes skin intelation. Form Int: 2 Harmful in contact with skin. Acute Tox: 4 H302 Harmful in contact with skin. Form Int: 2 Harmful in contact with skin. Acute Tox: 4 H302 Harmful in contact with skin. Form Int: 2 Harmful in contact with skin. Acute Tox: 4 H302 Harmful in Contact with skin or if inhaled. Courses skin intelation. Causes skin intelation. Forecutionary statements Causes skin intelation. Forecutionary statements Acute Tox: 4 H302 Harmful is wellowed, in contact with skin or if inhaled. Causes skin intelation. Causes skin intelation. Forecutionary statements Acute Tox: 4 H302 Harmful is wellowed. Forecutionary statements <	www.ana.com
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vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 40381-90-6 2, 6-Dichloro-3-cyanopyridine 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.	Results of PBT and vPvB assessment
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	Supply reshair. In required, provide antincial respiration. Reep patient warm. Seek immediate medical advice. (Contd. on page 2

(Contd. on page 2) USA After skin contact

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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 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 cyanide (HCN) Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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 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 Handling Precautions for safe handling Handle under dry protective gas. 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 water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. **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 General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solled 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 Impervious gloves Impervious gioves 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.

(Contd. on page 3)

USA

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		(Contd. of page 2)		
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form:				
Odor:	Solia Not determined Not determined.			
	Not applicable.			
Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	121-125 °C (250-257 °F) Not determined Not determined Not determined. Not determined Not determined Not determined Not determined.			
Explosion limits:	Not determined.			
Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined			
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:				
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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Water/moisture Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen cyanide Nitrogen oxides Hydrogen chloride (HCI)				
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 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 elfects 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. Aspiration hazard: No effects known. Subacute to chronic toxicity: To he 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	or national regulations to ensure proper disposal.	(Contd. on page 4) USA		

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Uncleaned packagings:

Uncleaned packagings: Recommendation: Disposal must be made according to officia	al regulations.			
14 Transport information				
UN-Number DOT, IMDG, IATA	UN3439			
UN proper shipping name				
DOT IMDG, IATA	Nitriles, solid, toxic, n.o.s. (2,6-Dichloro-3-cyanopyridine) NITRILES, SOLID, TOXIC, N.O.S. (2,6-Dichloro-3-cyanopyridine)			
Transport hazard class(es)				
DOT				
Class	6.1 Toxic substances.			
Label Class	6.1 6.1 (T2) Toxic substances			
Label IMDG, IATA	6.1			
Class	6.1 Toxic substances.			
Label Packing group	6.1			
Packing group DOT, IMDG, IATA	III			
Environmental hazards: Special procedutions for user	Not applicable. Warning: Toxic substances			
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information: DOT				
Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (2,6-Dichloro-3-cyanopyridine), 6.1, III			
GHS07				
Signal word Warning Hazard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H316 Causes serious eye irritation. H317 Causes serious eye irritation. H318 May cause respiratory irritation. Precautionary statements Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P304+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P30 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. Mational 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 to research and development only. This product must be used by commutation sfor commercial purposes. This product is not listed on the Canadian Domestic Substance is not listed. Prop 65 - Develop				
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 fety 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 combin Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	hation with any other product or process, is the responsibility of the user.			
Date of preparation / last revision 11/24/2010 / -	(Contd. on page 5			

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Abbreviations and acronyms: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE 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) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)