



Product name: 2-Chloropyridine-4-carboxylic acid

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After swallowing Seek medical treatme	ent	(Contd. of page 1)			
Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available.					
Indication of any immediate medical a	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					
Nitroaen oxides (NOx)					
Hydrogen chloride (HCl) Advice for firefighters Protective equipment:					
Wear self-contained respirator. Wear fully protective impervious suit.					
6 Accidental release measures					
Wear protective equipment. Keep unpro	Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.				
Environmental precautions: Do not all	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 ha	andling				
See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.				
7 Handling and storage					
Handling					
Precautions for safe handling Keep container tightly sealed.					
Store in cool, dry place in tightly closed Ensure good ventilation at the workplace	containers.				
Information about protection against	explosions and fires: No information known.				
Conditions for safe storage, including Storage					
Requirements to be met by storeroon Information about storage in one com	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents.				
Further information about storage con Keep container tightly sealed	nditions:				
Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers.				
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 foodsfuffs, 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.					
Montach wind by and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.					
Protection of hands:	prator when high concentrations are present.				
Impervious gloves Check protective gloves prior to each us	se for their proper condition.				
Penetration time of glove material (in	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined				
Eye protection: Safety glasses Body protection: Protective work clothi	ing.				
9 Physical and chemical properties					
Information on basic physical and ch					
General Information Appearance:					
Form: Color:	Powder White				
Odor: Odor threshold:	Not determined Not determined				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range:	230-232 °C (446-450 °F)				
Boiling point/Boiling range:	Not determined				
Sublimation temperature / start: Flash point:	Not determined Not applicable				
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined				
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		USA -			

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		(Control of normal
Decomposition temperature:	Not determined	(Contd. of page 2
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable. Not determined	
Density: Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water)	Not determined): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	nt information available.	
Hydrogen chloride (HCl)		
1 Toxicological information Information on toxicological effects		
Acute toxicity: No effects known.		
LD/LC50 values that are relevant for a Skin irritation or corrosion: Causes skin	kin irritation.	
Eve irritation or corrosion: Causes se	erious eve irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	IOWN.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn.	
Specific target organ system toxicity	r - repeated exposure: No effects known.	
Aspiration hazard: No effects known	r - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
Toxicity Aquatic toxicity: No further relevant inf	formation or witching	
Persistence and degradability No further relevant inf Bioaccumulative potential No further r	her relevant information available.	
Mobility in soil No further relevant infor	relevant information available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	the environment without proper governmental permits.	
Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable.	ıt	
vPvB: Not applicable.	e to the manual data to the test	
Other adverse effects No further releva	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 m	nade according to official regulations.	
14 Transport information Not a hazardous material for transportat	tion	
UN-Number DOT, IMDG, IATA	tion. None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es)	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA	None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None None None	
UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class Packing group DOT, IMDG, IATA	None None None None None Not applicable. Not applicable.	(Contd. on page

roduct name: 2-Chloropyridine-4-carboxylic aci	id
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Transport in bulk according to Annex II of MARPOL73	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
15 Regulatory information	
Safety, health and environmental regulations/legislations	ion specific for the substance or mixture ad in accordance with 29 CFR 1910 (OSHA HCS)
\wedge	
\checkmark	
GHS07	
Signal word Warning	
Hazard statements H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/va	anoure/enrav
P280 Wear protective gloves/protective cloth	thing/eve protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with wat P304+P340 IF INHALED: Remove person to fresh	ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing.
P405 Store locked up.	rdance with local/regional/national/international regulations.
National regulations	ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted
to research and development only. This product must be u	used by or directly under the supervision of a technically gualified individual as defined by TSCA. This
product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Su	Substance is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance	ze is not listed.
Prop 65 - Developmental toxicity Substance is not listed	
Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is no	ot listed.
Other regulations, limitation of use: For use only by tec	chnically qualified individuals. ions
Substance of Verv High Concern (SVHC) according to	o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 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 Authors)	orisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asses	ssment has not been carried out.
16 Other information	
information to ensure proper use and protect the health a	nent to other information gathered by them, and should make independent judgement of suitability of this 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 co	combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	t
Date of preparation / last revision 11/23/2015/ - Abbreviations and acronyms: RID: Redement international concernant le transport des marchandises dan	ngereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transpol ICAO: International Civil Aviation Organization	rt Association" (IATA)
ICAO-TI: Technical Instructions by the "International Civil Aviation Organizati IMDG: International Maritime Code for Dangerous Goods	ngereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) of Association" (IATA) tion" (ICAO) ty)
DUI: US Department of Transportation IATA: International Air Transport Association CAS: Chamical Abstracts Savies (division of the American Chemical Society	
HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)	y/
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA)	
NTP: National Toxicology Program (USA)	

INP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)