



Nevieweu	101103/19/2010
1 Identification	
Product identifier Product name: 4-Chloro-3-nitropyridine hydrochloride	
Stock number: L19728	
CAS Number: 54079-68-4	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-322-4757	
Email: tech@alfa.com www.alfa.com	
Information Department: Health, Safety and Environmental Department Emergency telephone number:	
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-078	39.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
GHS07	
Signal word Warning Hazard statements	
H302 Harmful if swallowed. H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2 FRE 1 Flammability = 1 Flammability = 1	
REACTIVITY Physical Házard = 1 Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
54079-68-4 4-Chloro-3-nitropyridine hydrochloride	
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	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact 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. (C	Contd. on page 2)

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	Indication of any immediate medical a	attention and special treatment needed No further relevant information available.	(Contd. of page 1)
,	5 Fire-fighting measures		
	Extinguishing media	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture llowing can be released:	
6	6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprotective Ensure adequate ventilation Environmental precautions: Do not allow Methods and material for containment Dispose of contaminated material as was Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe hallow See Section 13 for disposal information.	tected persons away. Iow material to be released to the environment without proper governmental permits. t and cleaning up: iste according to section 13. special measures required.	
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. Store in cool, dry conditions in well sealed containers.			
٤	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 Deneral protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Geep away from foodstuffs, beverages and feed. Remove all solled and contaminated clothing immediately. Vash hands before breaks and at the end of work. Woid contact with the eyes and skin. faintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: mpervious gloves The selection of suitable gloves not only depends on the material, but also on quality. Van the selection of suitable gloves not only depends on the material, but also on quality. Pertaction: Safety glasses Body protective: Protective work clothing.		
ç	9 Physical and chemical properties Information on basic physical and chemical properties General Information		
	Appearance: Form: Color: Odor: Odor threshold:	Powder Cream Odorless Not determined.	
	pH-value:	Not applicable.	
	Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	135-138 °C (275-280 °F) Not determined Not determined	
	Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable Not determined. Not determined	(Contd. on page 3)

(Contd. on page 3) USA

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Product name: 4-Chioro-3-hitropyric	ame nyarocmonae		
Decomposition tomporature:	Not determined	(Contd. of page 2)	
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density: Relative density	Not determined Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water: Partition coefficient (n-octanol/water)	Soluble		
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 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 Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN)			
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. 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 - repeated exposure: May cause respiratory irritation. 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 int Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes:	her relevant information available. relevant information available. rmation available.		
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 releva	ant 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 transportation.			
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA	None		
Transport hazard class(es)			
DOT, ADR, IMDG, IATA	Noro		
Class Packing group	None		
Packing group DOT, IMDG, IATA	None		
Environmental hazards:	Not applicable.	(Contd. on page 4)	
		USA -	

Product name: 4-Chloro-3-nitropyridine hydrochloride				
	(Contd. of page 3			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 a				
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				
National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in formu SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is n Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Information about limitation of use: For use only by technic Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the	or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ance is not listed. not listed. listed. ted. cally qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ation for use) Substance is not listed.			
information to ensure proper use and protect the health and sa	o other information gathered by them, and should make independent judgement of suitability of this afety of employees. This information is furnished without warranty, and any use of the product not in ination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing Department	uses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) iociation" (IATA) ICAO)			