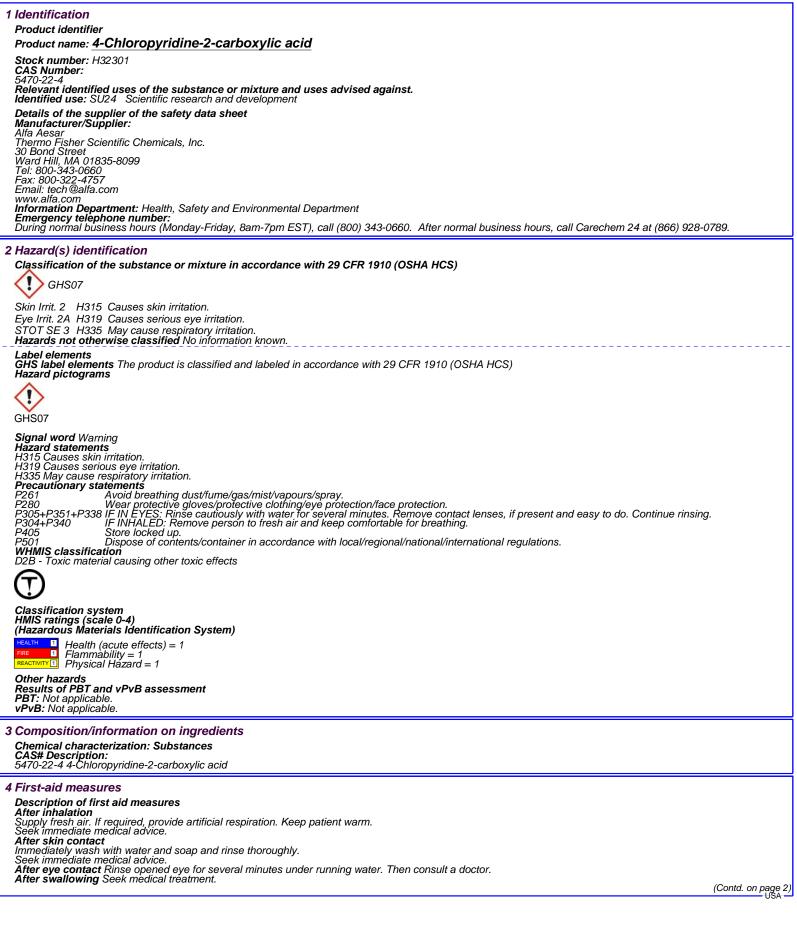


Safety Data Sheet per OSHA HazCom 2012



Product name: 4-Chloropyridine-2-carboxylic acid

(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 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 Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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: 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 context with the everage and exin 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 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 Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Cream Not determined Odor: Odor threshold: Not determined. Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 180 °C (356 °F) (dec) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

Product name: 4-Chloropyridine-2-carboxylic acid

Page 3/4 Printing date 11/23/2015 Reviewed on 08/27/2009

Auto gining: Not determined. Darger of explosion: Product determined Lower: Not determined Construction: Not determined Description: Not determined Particle control (Not determined) Not determined Particle control (Not determined) Not determined Particle control (Not determined) Not determined Particle control (Not Notromation Control (Not Notromation available) Not determined Off antification control (Not Notromation available) Not Notromation Off antification control (Not Notromation available) Not Notromation available Off antification control (Notromation available) Not Notromation available Off antification (Notromation Control (Notromation available) Not Notromation available Not Notromation on toxicological information Not Notromation available Not Notromation on toxicological information Not Notromation available Not Notrelation on toxicological information Not Notro	(Contd. of page 2)		
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Special precautions for user Not applicable.	(Contd. on page 4	utions for user Not applicable.	Special precautions for user

Product name: 4-Chloropyridine-2-carboxylic acid	
	(Contd. of page
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
15 Regulatory information	
Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in a Hazard pictograms	pecific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS)
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/vapour.	rs/enrou
P280 Wear protective gloves/protective clothing/	eye protection/face protection. r several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. nd keep comfortable for breathing.
	ce with local/regional/national/international 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	Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric by or directly under the supervision of a technically qualified individual as defined by TSCA. This lations for commercial purposes. ance is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is r Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not li Prop 65 - Developmental toxicity, male Substance is not list	
Information about limitation of use: For use only by technica	ea. ally qualified individuals.
Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the The conditions of restrictions according to Article 67 and market and use must be observed.	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 t
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisa Chemical safety assessment: A Chemical Safety Assessment	ition for use) Substance is not listed. In thas not been carried out.
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 ir ination 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 / -	
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Asso ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (IC IMDG: International Maritime Code for Dangerous Goods	calo)
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA)	ses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ociation" (IATA) CAO)
WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent	
LDOULEURIA dose, SU percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hvaienists (IISA)	
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	

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

- USA -