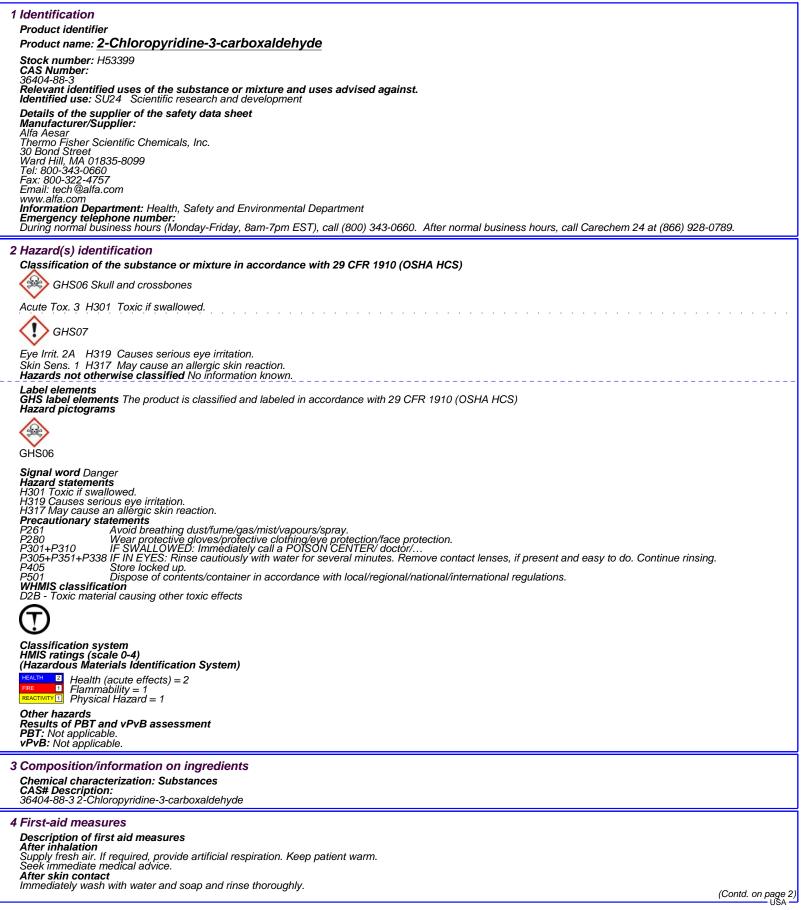


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloropyridine-3-carboxaldehyde (Contd. of page 1) 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 freatment 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) Hurdrogen obligite (NOX) Hydrogen chloride (HCI) Possibly 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. **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. Avoid contact with the eyes and skin. 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 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: Color: Powder White to pale brown Odor: Not determined Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 50-54 °C (122-129 °F) Not determined

(Contd. on page 3)

2-Chloropyriding-2-carboxaldebyde duct Dr

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		viewed on 09/20/2011
roduct name: 2-Chloropyridine-3-c	carboxaldehyde	
		(Contd. of page 2)
Sublimation temperature / start:	Not determined	
Flash point:	> 110 °C (> 230 °F) Not determined	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Auto igniting: Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recomi	nmended storage conditions. • to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	lo dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager	ents	
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
Possibly Hydrogen cyanide (HCN)		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: Toxic if swallowed. LD/LC50 values that are relevant for c	classification. No data	
Skin irritation or corrosion: May cause	se irritation	
Eye irritation or corrosion: Causes sea Sensitization: May cause an allergic sk	skin reaction.	
Germ cell mutagenicity: No effects kno	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	own.	
Specific target organ system toxicity Specific target organ system toxicity	y - repeated exposure: No effects known.	
Aspiration hazard: No effects known		
Subacute to chronic toxicity: No effec Additional toxicological information:	ects 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	iformation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	rther relevant information available. r relevant information available.	
Mobility in soil No further relevant infor	internation available.	
Additional ecological information: General notes:		
Do not allow material to be released to t	the environment without proper governmental permits. e quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessment PBT: Not applicable.	it	
vPvB: Not applicable. Other adverse effects No further releva	vont information available	
3 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.	
4 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
, , ,		
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group		
DOT, IMĎG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
		(Contd. on page

(Contd. on page 4)

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aldehyde
(Contd. of page 3
Not applicable.
RPOL73/78 and the IBC Code Not applicable.
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No
<i>flegislation specific for the substance or mixture</i> ad labeled in accordance with 29 CFR 1910 (OSHA HCS)
s/mist/vapours/spray. tive clothing/eye protection/face protection. ly call a POISON CENTER/ doctor/ with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. r in accordance with local/regional/national/international regulations. tal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This es or in formulations for commercial purposes. tings) Substance is not listed. not listed. stance is not listed. Ince is not listed. Ince is not listed. Ince is not listed. Substance Justed. The estimates of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Tricle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Ing Authorisation for use) Substance is not listed. Mark Assessment has not been carried out.
supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
partment /- andises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) nical Society) anada)

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)