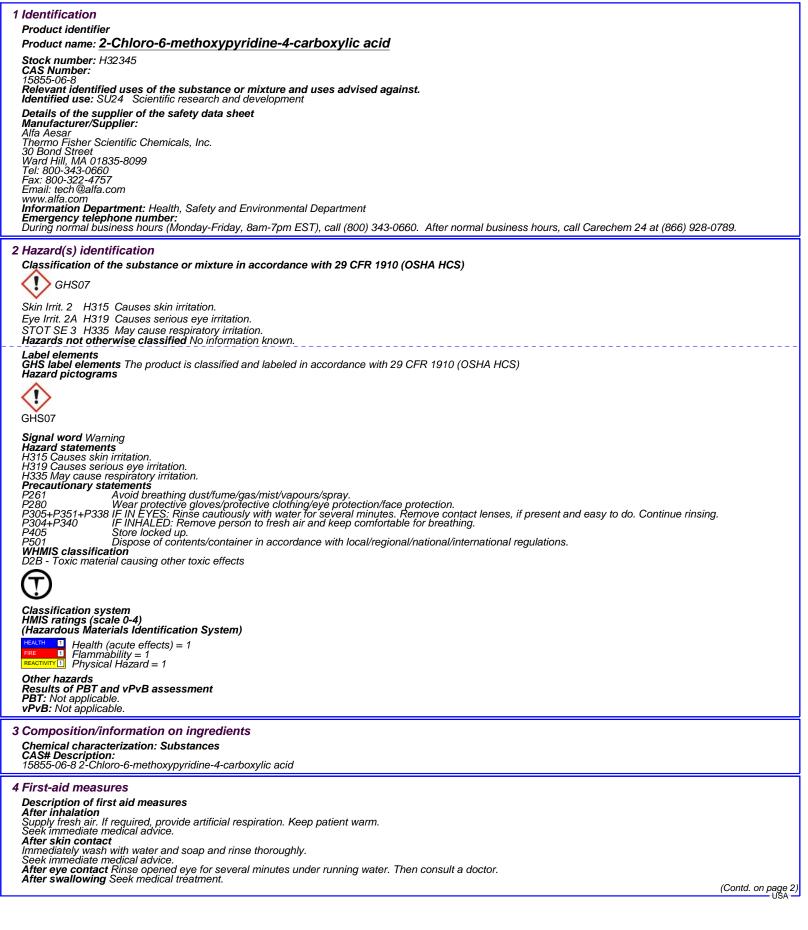


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloro-6-methoxypyridine-4-carboxylic acid

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(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 Hydrogen chloride (HCl) Nitrogen oxides (NOx) 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: Solid Odor: Odor threshold: Not determined Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 210-212 °C (410-414 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 2-Chloro-6-methoxypyridine-4-carboxylic acid

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			(Contd. of page 2)
Auto igniting:	Not determined.		
Danger of explosion:	Product does not present an e	explosion hazard.	
Explosion limits: Lower:	Not determined		
Upper:	Not determined		
Vapor pressure:	Not applicable.		
Density:	Not determined		
Relative density Vapor density	Not determined.		
Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with	not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol	water): Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information	n available.	
10 Stability and reactivity			
Reactivity No information known	recommended storage conditions.		
Thermal decomposition / cond	itions to be avoided. Decomposition	will not occur if used and stored according to specifications.	
Possibility of hazardous reaction	ons No dangerous reactions known		
Conditions to avoid No further i	relevant information available.		
Incompatible materials: Oxidizi	ng agents		
Hazardous decomposition pro	ducts:		
Carbon monoxide and carbon did Hydrogen chloride (HCl)	DXIDE		
Nitrogen oxides			
Nitrogen oxides Hydrogen cyanide			
11 Towing lowing linformation			
11 Toxicological information			
Information on toxicological ef	fects		
Acute toxicity: No effects known). At fan alaasifiaatian, Na data		
LD/LC50 values that are releval			
Skin irritation or corrosion: Ca Eye irritation or corrosion: Cau	uses skin initiation.		
Sensitization: No sensitizing effe	ects known		
Sensitization: No sensitizing effe Germ cell mutagenicity: No effe	ects known.		
Carcinogenicity: No classification	on data on carcinogenic properties of t	this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effect	ts known.		
Specific target organ system to	oxicity - repeated exposure: No effect	cts known.	
Specific target organ system to	oxicity - single exposure: May cause	e respiratory irritation.	
Aspiration hazard: No effects ki	10WN.		
Subacute to chronic toxicity: N Additional toxicological inform	ation: To the best of our knowledge t	he acute and chronic toxicity of this substance is not fully known.	
		· · · · ·	
12 Ecological information			
Toxicity			
Aquatic toxicity: No further rele	vant information available. No further relevant information availab		
Persistence and degradability in Rioccountry lative potential No f	urther relevant information available.	ne.	
Mobility in soil No further releva	ant information available		
Additional ecological informati	ion:		
General notes:			
Do not allow material to be releas	sed to the environment without proper	governmental permits.	
Do not allow undiluted product of	r large quantities to reach ground wate ent.	er, water course or sewage system.	
Results of PBT and vPvB asses	ssment		
PBT: Not applicable.	sament		
vPvB • Not applicable			
Other adverse effects No furthe	r relevant information available.		
13 Disposal considerations			
-			
Waste treatment methods	local or notional regulations to anour	a proper diapood	
Uncleaned packagings:	, local or national regulations to ensur	e proper disposal.	
Recommendation: Disposal mu	st be made according to official regula	ations	
neeenmenaalem Biopeea ma	st se made decerding te emelar regula		
14 Transport information			
Not a hazardous material for tran	sportation.		
UN-Number			
DOT, IMDG, IATA		None	
UN proper shipping name DOT, IMDG, IATA		None	
Transport hazard class(es)			
DOT, ADR, IMDG, IATA		Nono	
Class Booking group		None	
Packing group DOT, IMDG, IATA		None	
Environmental hazards:		Not applicable.	
Special precautions for user		Not applicable.	
			(Contd. on page 4

(Contd. on page 4)

Product name: 2-Chloro-6-methoxypyridine-4-carboxylic acid			
	(Contd. of page		
Transport in bulk according to Annex II of MARPOL7			
Transport/Additional information:	Not dangerous according to the above specifications.		
DOT Marine Pollutant (DOT):	No		
5 Regulatory information			
Safety, health and environmental regulations/legislat GHS label elements The product is classified and labele Hazard pictograms	tion specific for the substance or mixture ed in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P405 Store locked up. P501 Dispose of contents/container in acco National regulations This product is not listed in the U.S. Environmental Protect to research and development only. This product must be product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is ro Information about limitation of use: For use only by te Other regulations, limitations and prohibitive regulat Substance of Very High Concern (SVHC) according t	 thing/eyé protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. h air and keep comfortable for breathing. ordance with local/regional/national/international regulations. ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict a used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. ed. s not listed. so not listed. so not listed. to the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. 		
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 combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Departmen Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms:	nt angereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ort Association" (IATA) ation" (ICAO) ety)		

EPA: Environmental Protection Agency (USA)

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