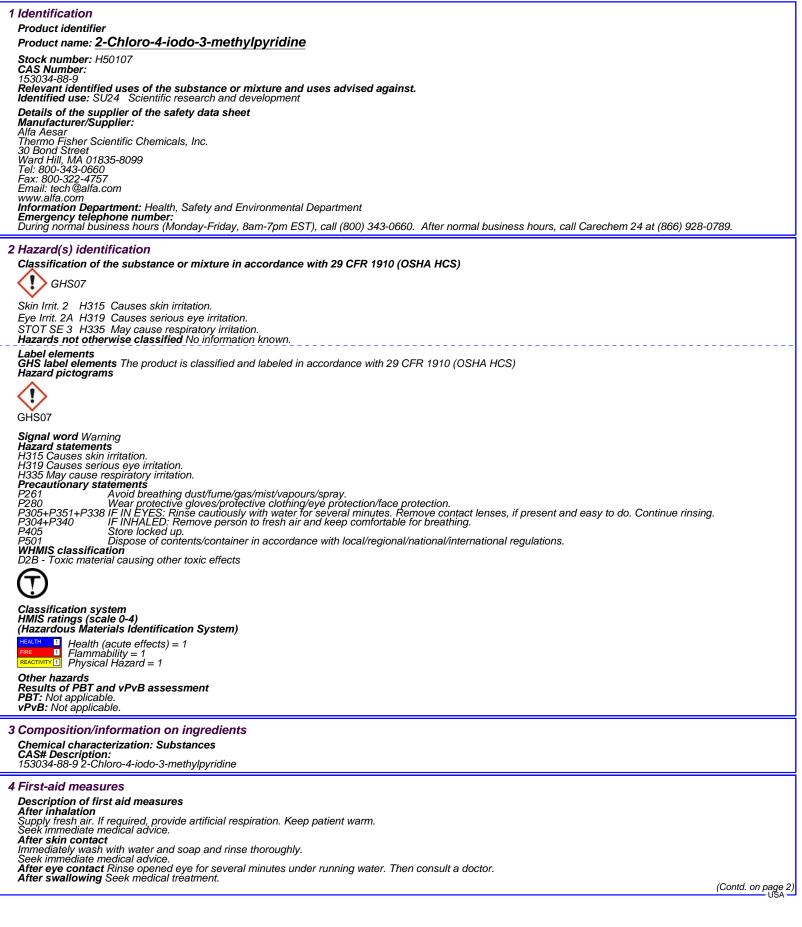


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloro-4-iodo-3-methylpyridine

(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 iodide (HI) 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 Color: White 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: Not determined Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Not determined. Not determined (Contd. on page 3)

Product name: 2-Chloro-4-iodo-3-methylpyridine

Product name: 2-Chloro-4-lodo-3-fr		(Canto of page 2)
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.	
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	Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Thermal decomposition / conditions	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to sp a dependence of the set of the store of the set of the s	pecifications.
Possibility of hazardous reactions N Conditions to avoid No further releva	O GANGETOUS TEACIIONS KNOWN	
Incompatible materials: Oxidizing age	ents	
Hazardous decomposition products. Carbon monoxide and carbon dioxide		
Nitrogen oxides Hydrogen chloride (HCl)		
Hydrogen iodide (HI)		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for	classification: No data	
Skin irritation or corrosion: Causes s	kin irritation.	
Eye irritation or corrosion: Causes s Sensitization: No sensitizing effects ki	nown.	
Germ cell mutagenicity: No effects kr	own. a on carcinogenic properties of this material is available from the EPA, IARC, N	TR OSHA or ACCIH
Reproductive toxicity: No effects kno	wn.	
Specific target organ system toxicity Specific target organ system toxicity	r-repeated exposure: No effects known. r-single exposure: May cause respiratory irritation.	
Aspiration hazard. No effects known		
Subacute to chronic toxicity: No effe Additional toxicological information	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is	s not fully known.
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant in Persistence and degradability No fur	formation available. ther relevant information available	
Persistence and degradability No fur Bioaccumulative potential No further	relevant information available.	
Mobility in soil No further relevant info Additional ecological information:	rmation available.	
General notes:	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 assessme	nt second se	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further relev	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be i	nade according to official regulations.	
14 Transport information Not a hazardous material for transporta	tion	
UN-Number		
DOT, IMDG, IATA UN proper shipping name	None	
DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	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-4-iodo-3-methylpyridine		
	(Contd. of page 3)	
Transport in bulk according to Annex II of MARPOL73/7	78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
P304+P340 IF INFIALED: Refinitive person to fresh a. P405 Store locked up. P501 Dispose of contents/container in accord. National regulations This product is not listed in the U.S. Environmental Protecti to research and development only. This product must be use product must not be used for commercial purposes or in for SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and prohibitive regulation Substance of Very High Concern (SVHC) according to the other regulations of restrictions according to Article 67 all market and use must be observed.	Ing/eyé protection/face protection. r for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. iir and keep comfortable for breathing. lance with local/regional/national/international regulations. ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This rmulations for commercial purposes. bstance is not listed. is not listed. isted. isted. isted. isted. the REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess	risation for use) Substance is not listed.	
16 Other information Employers should use this information only as a supplement information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in cor	nt to other information gathered by them, and should make independent judgement of suitability of this d safety of employees. This information is furnished without warranty, and any use of the product not in mbination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RD: Bedement international concernant le transport des marchandises dance	ereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)	
IATA-DĞR: Dangerous Goods Regulations by the "International Air Transport ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods	ereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Association" (IATA) n" (ICAO)	
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport . ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization IMDG: International Maritime Code for Dangerous Goods 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) WHMIS: Workplace Hazardous Materials Information System (Canada) I C60: Lethel concernation 50 nerrent		
I D50: Lethal dose 50 percent		
VPVB. very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) 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)

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