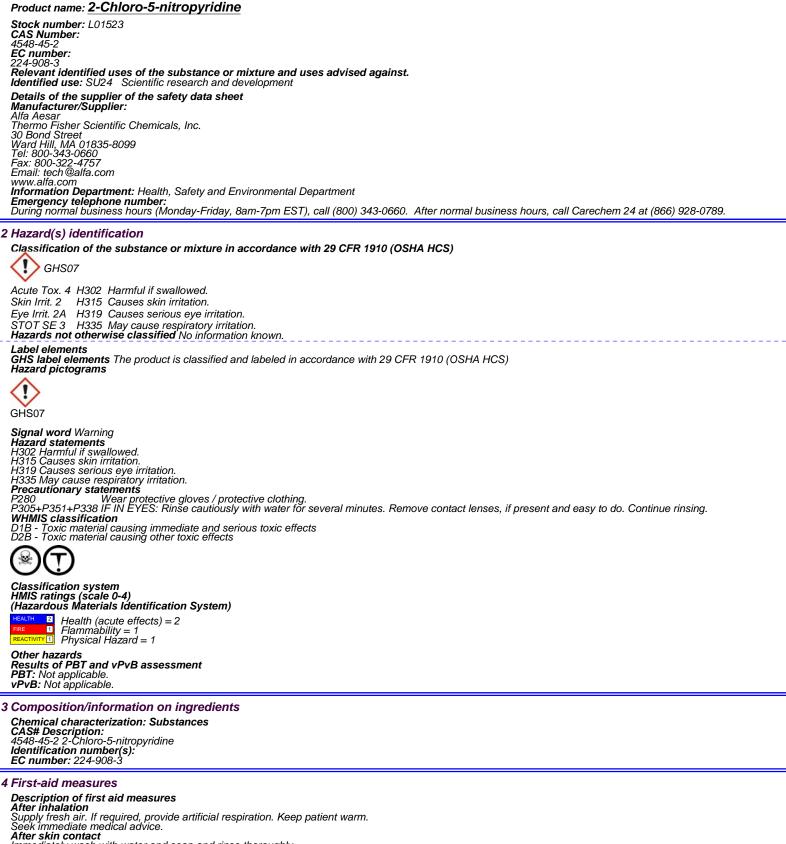




1 Identification

Product identifier
Product name: 2-Chloro-5-nitropyridin



Arter skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

## Product name: 2-Chloro-5-nitropyridine

		(Contd. of page 1)		
After eye contact Rinse opened eye for After swallowing Seek medical treatme	r several minutes under running water. Then consult a doctor. ent.	(1111)		
Information for doctor	s, both acute and delayed No further relevant information available.			
Indication of any immediate medical a	attention and special treatment needed No further relevant information available.			
5 Fire-fighting measures				
Extinguishing media	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.			
Special hazards arising from the subs	stance or mixture			
If this product is involved in a fire, the fo Carbon monoxide and carbon dioxide	liowing can be released:			
Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN)				
Hydrogen chloride (HCl) Advice for firefighters				
<b>Protective equipment:</b> Wear self-contained respirator.				
Wear fully protective impervious suit.				
6 Accidental release measures				
<b>Personal precautions, protective equ</b> Wear protective equipment. Keep unpro				
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.				
Ensure adequate ventilation.	-			
Prevention of secondary hazards: No special measures required. Reference to other sections				
See Section 7 for information on safe has See Section 8 for information on person	al 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	e. <b>explosions and fires:</b> No information known.			
Conditions for safe storage, including	•			
Storage Requirements to be met by storeroon	ns 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	t information available.			
8 Exposure controls/personal prote				
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 meas	General protective and hygienic measures			
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed.				
Remove áll soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.				
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate v	vorking environment.			
Protection of hands:	pirator when high concentrations are present.			
Impervious gloves Check protective gloves prior to each us	se for their proper condition.			
Eye protection: Safety glasses	depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
Body protection: Protective work cloth	ing.			
9 Physical and chemical properties				
Information on basic physical and ch General Information Appearance:	emical properties			
Form: Color:	Crystalline powder			
Odor:	Pále yellow Not determined			
Odor threshold: pH-value:	Not determined. Not applicable.			
Change in condition				
<i>Melting point/Melting range: Boiling point/Boiling range:</i>	104-109 °C (219-228 °F) Not determined			
Sublimation temperature / start:	Not determined	(Contd. on page 3)		

(Contd. on page 3) USA

## Product name: 2-Chloro-5-nitropvridine

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Destation 2 Chlore E nitronurid		newed 011 03/19/2010	
Product name: 2-Chloro-5-nitropyridi	ine		
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	158 °C (316 °F) Not determined. 540 °C (1004 °F) Not determined Not determined.	(Contd. of page 2)	
Danger of explosion: Explosion limits: Lower:	Product does not present an explosion hazard. Not determined		
Vapor pressure: Density: Relative density Vapor density	Not determined Not applicable. Not determined Not applicable. Not applicable.		
Solubility in / Miscibility with	Not applicable. Insoluble : Not determined.		
dynamic: kinematic:	Not applicable. Not applicable. 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. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration house for toxicity: No effects known. 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.			
Do not allow undiluted product or large qu Avoid transfer into the environment. <b>Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable. <b>vPvB:</b> Not applicable. <b>Other adverse effects</b> No further relevar	her relevant information available. relevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>t</b>		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or Uncleaned packagings: Recommendation: Disposal must be ma	or national regulations to ensure proper disposal. nade according to official regulations.		
14 Transport information Not a hazardous material for transportation UN-Number	jon.		
DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA	None		
DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None		
		(Contd. on page 4) USA	

## Product name: 2-Chloro-5-nitropyridine (Contd. of page 3) Packing group DOT, IMDG, IATA None Environmental hazards: Not applicable. Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: Not dangerous according to the above specifications. ΠΟΤ 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 ! GHS07 Signal word Warning Hazard statements 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. P305+P351+P338 IF IN EYES: Rinše cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female 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, male Substance is not listed. 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, male Substance is not listed. Prop 65 - Developmental toxicity formale 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, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use about the chapter of the manufacturing, placing on the market and use must be observed. Substance i not liste Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination 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 / -Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IMDE: International Maritime Code for Dangerous Goods DOT: US Department of Transportation DAT: International Maritime Code for Dangerous Goods DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent USD: Lethal concentration, 50 percent COS: Chemical Abstrated Society VPWS: 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA