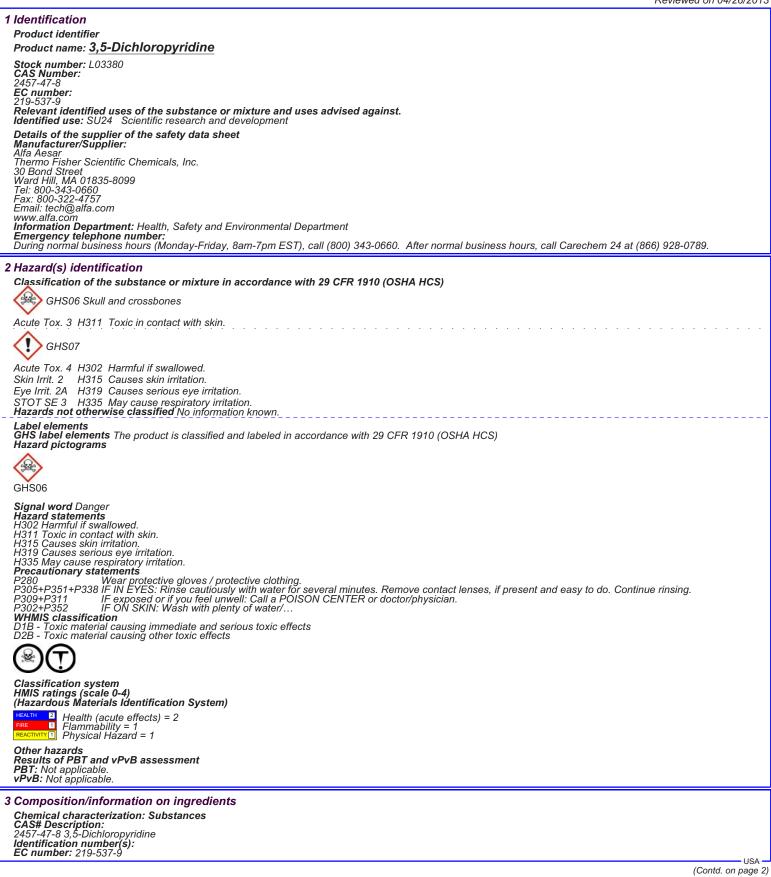


Safety Data Sheet per OSHA HazCom 2012



Product name: 3,5-Dichloropyridine

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	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	
Seek îmmediate medical advice. After skin contact	
Immediately wash with water and soap and rinse thoroughly. 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 treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents Carbon diovide, extinguishing nowder or water spray. Fight larger fires with water spray or alcohol resistant form	
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 (HCl) Advice for firefighters	
Advice for interignets Protective equipment: Wear self-contained respirator.	
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. Ensure adequate ventilation.	
Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away.	
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.	
Properly operating chemical tume 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.	
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.	
Keep away from foodstuffs, beverages and feed. Reep away from foodstuffs, beverages and feed.	
Wash hands before breaks and at the end of work.	
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	
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	
Form: Crystalline powder	(Control on more 2)
	(Contd. on page 3) USA

Product name: 3 5-Dichloropyridine

Product name: 3,5-Dichloropyridine	3		
		(Contd. of page 2	
Color: Odor:	White Unpleasant		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition	62 67 °C (445 452 °C)		
Melting point/Melting range: Boiling point/Boiling range:	63-67 °C (145-153 °F) 178 °C (352 °F)		
Sublimation temperature / start:	Not determined		
Flash point: Elammability (solid, gasoous)	74 °C (165 °F) Not determined.		
Flammability (solid, gaseous) Ignition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
	Not determined.		
Danger of explosion: Explosion limits:			
Lower: Upper:	Not determined Not determined		
Vapor pressure: Density at 20 °C (68 °F):	Not applicable.		
Density at 20 °C (68 °F): Relative density	1.39 g/cm³ (11.6 lbs/gal) Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water: Insoluble			
Partition coefficient (n-octanol/water Viscosity:): Not determined.		
dynamic:	Not applicable.		
kinematic: Other information	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 Reacts with strong oxidizing agents 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)			
11 Toxicological information			
Information on toxicological effects Acute toxicity: Harmful if swallowed. Toxic in contact with skin. Danger through skin absorption. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subscute to chronic toxicity: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subscute 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.			
12 Ecological information			
Toxicity			
Aquatic toxicity: No further relevant in Persistence and degradability No fur	iformation available. ther relevant information available		

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to 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 assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal. **Uncleaned packagings: Recommendation:** Disposal must be made according to official regulations.

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Product name: 3,5-Dichloropyridine

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14 Transport information			
UN-Number			
DOT, IMDG, IATA	UN2811		
UN proper shipping name DOT	Toxic solids, organic, n.o.s. (3,5-Dichloropyridine) TOXIC SOLID, ORGANIC, N.O.S. (3,5-Dichloropyridine)		
IMDG, IATA	TOXIC SOLID, ORGANIC, N.O.S. (3,5-Dichloropyridine)		
Transport hazard class(es) DOT			
(10HC			
Class Label	6.1 Toxic substances. 6.1		
Class Label	6.1 (T2) Toxic substances 6.1		
ĪMDG, IATA	0.1		
×			
Class	6.1 Toxic substances.		
Label Packing group	6.1		
Packing group DOT, IMDG, IATA	III		
Environmental hazards:	Not applicable.		
Special precautions for user EMS Number:	Warning: Toxic substances F-A.S-A		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC			
Transport/Additional information:			
DOT			
Marine Pollutant (DOT): UN "Model Regulation":	No UN2811, Toxic solids, organic, n.o.s. (3,5-Dichloropyridine), 6.1, III		
on model Regulation .	ONZOTT, TOXIC Solids, Organic, n.o.s. (3,3-Dichloropyndine), 6.1, m		
Signal word Danger Hazard statements H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H316 Causes skin irritation. H318 Quase respiratory irritation. H336 May cause respiratory irritation. Precautionary statements P280 Wear protective gloves / protective clothing. P309+P351 F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P351 F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P351 I F exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of water/ 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 restricte 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 is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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, statance 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, female Substance is not listed. Prop 65 - Developmental toxicity, male 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, female Substance is not listed. Prop 65 - Developmental toxicity, female Subst			
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for us Chemical safety assessment: A Chemical Safety Assessment has not b 16 Other information Employers should use this information only as a supplement to other infor	rmation gathered by them, and should make independent judgement of suitability of this oloyees. This information is furnished without warranty, and any use of the product not in any other product or process, is the responsibility of the user.		
EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)	(Contd. on page 5)		

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Product name: 3,5-Dichloropyridine

HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: 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) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA