





(Contd. of page 1)

Product name: 3-Chloro-4-methylpyridine

After skin contact

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 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) 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 Ensire adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 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. drv

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: 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

General protective equipment General protective and hygienic measures

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. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering con-

Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands:

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: Tightly sealed goggles Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form:

Color:

Liquid Colorless to brown

Product name: 3-Chloro-4-methylpyridine

Page 3/4 Printing date 11/24/2015 Reviewed on 09/02/2014

Product name: 3-Chloro-4-methylpy	ridine	
		(Contd. of page 2)
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not determined.	
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density: Relative density	Not determined Not determined.	
Vapor density	Not determined.	
Evaporation rate Solubility in / Miscibility with	Not determined.	
Water:	Not determined	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not determined.	
kinematic:	Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		1
Chemical stability Stable under recomi	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	1
Thermal decomposition / conditions to Possibility of hazardous reactions Re	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Conditions to avoid No further relevant	nt information available.	
Incompatible materials: Oxidizing ager	ents	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Nitrogen oxides		
Hydrŏgen chloride (HCl)		
11 Toxicological information		I
Information on toxicological effects		
Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for c	- 1 181 time. No data	
Skin irritation or corrosion: Causes sk	skin irritation.	
Eye irritation or corrosion: Causes ser	erious eye damage.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	nown.	
Carcinogenicity: No classification data	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive foxicity: No effects know Specific target organ system toxicity	/ - repeated exposure: No effects known	
Specific target organ system toxicity	- single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts 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 info	formation available.	
Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further n	her relevant information available.	I
Nobility in soil No further relevant infor	relevant information available.	
Additional ecological information:		
General notes: Do not allow undiluted product or large of	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessment PBT: Not applicable.	ıt	
vPvB: Not applicable.		I
Other adverse effects No further releva	ant information available.	
13 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	
14 Transport information		
UN-Number DOT ADN IMDG IATA	Notanniaghla	I
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	I
		(Contd. on page 4)
		USA —

	Reviewed on 09/02/2014
Product name: 3-Chloro-4-methylpyridine	
	(Contd. of page 3
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL7	3/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
5 Regulatory information	
	tion specific for the substance or mixture
Safety, health and environmental regulations/legislat GHS label elements The product is classified and labele	ed in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms	
GHS05 GHS07	
Signal word Danger	
Hāzard statements H302 Harmful if swallowed.	
H315 Causes skin irritation.	
H318 Causes serious eye damage. H335 May cause respiratory irritation	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/v	apours/spray.
P280 Wear protective gloves/protective clo P305+P351+P338 IE IN EYES: Rinse cautiously with wa	tning/eye protection/face protection. ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh	hair and keep comfortable for breathing.
P405 Store locked up. P501 Dispose of contents/container in acco	ordance with local/regional/national/international regulations.
National regulations	
This product is not listed in the U.S. Environmental Prote	ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial nurnoses or in	formulations for commercial nurnoses
This product is not listed on the Canadian Domestic Sub	stances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
California Proposition 65	Sistances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed.
Prop 65 - Chemicals known to cause cancer Substant	ce is not listed.
Prop 65 - Developmental toxicity Substance is not liste Prop 65 - Developmental toxicity, female Substance is	au. s not listed.
Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is in Information about limitation of use: For use only by te	not listed.
Information about limitation of use: For use only by te Other regulations, limitations and prohibitive regulat	chnically qualified individuals.
Substance of Very High Concern (SVHC) according t	to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
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 reference of t
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Auth	horisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Asse	ssment has not been carned out.
6 Other information	
Employers should use this information only as a supplen	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
conformance with this Material Safety Data Sheet, or in c	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 / -	nt
Date of preparation / last revision 11/24/2015 / -	
ADDreviations and acronyins: ADD: Accord européen sur le transport des marchandises dangereuses pa	r Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DO1: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Socie	ety)
HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)	nr Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ety)) USA
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA))
OSHA: Occupational Safety and Health Administration (USÁ) NTP: National Toxicology Program (USA)	
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
	- USA