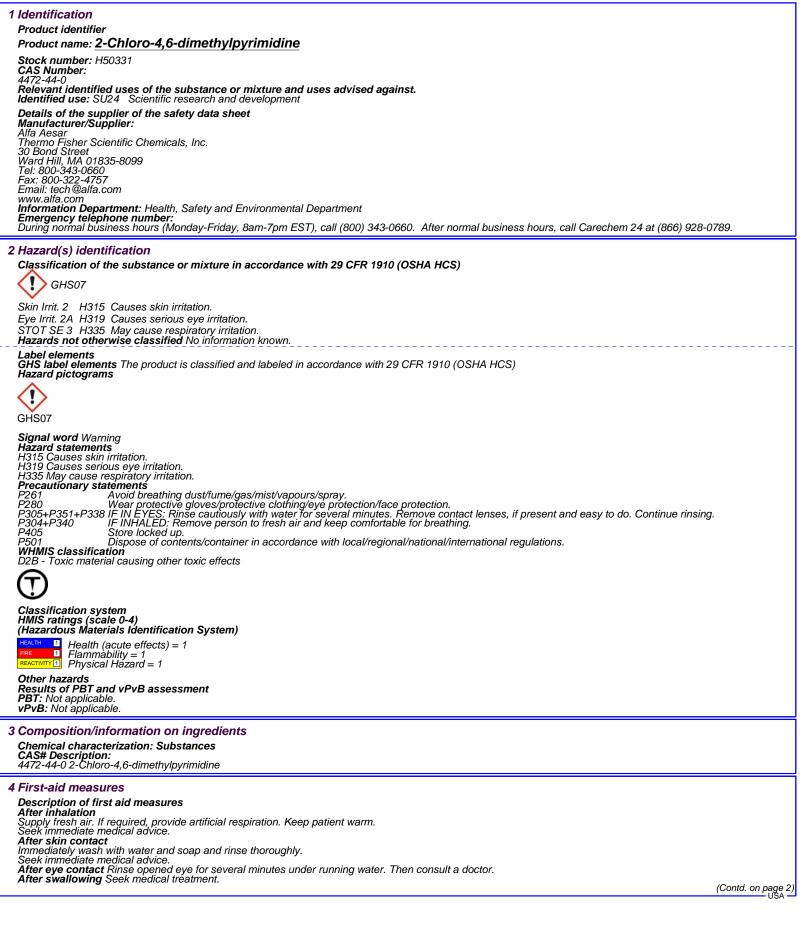


Safety Data Sheet per OSHA HazCom 2012



Product name: 2-Chloro-4,6-dimethylpyrimidine (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) 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 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 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: Powder Color: Yellow Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. 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) Not determined Ignition temperature: Decomposition temperature: Not determined Not determined (Contd. on page 3)

Product name: 2-Chloro-16-dimethylpyrimidine

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	Revi	iewed on 03/27/2007
Product name: 2-Chloro-4,6-dimethy	ylpyrimidine	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water):	Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recom	mended storage conditions. to be avoided : Decomposition will not occur if used and stored according to specifications.	
Thermal decomposition / conditions to	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No Conditions to avoid No further relevant	t information available.	
Incompatible materials: Oxidizing agen		
Hazardous decomposition products: Carbon monoxide and carbon dioxide		l
Nitrogen oxides Hydrogen chloride (HCI)		
Hydrogen chionae (noi)		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for c	vlassification: No data	l
Skin irritation or corrosion: Causes sk	kin irritation.	l
Eve irritation or corrosion: Causes ser	rious eve irritation.	l
Germ cell mutagenicity: No effects kno	own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know Specific target organ system toxicity	- repeated exposure: No effects known.	
Specific target organ system toxicity -	- single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	xts 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.	l
Persistence and degradability No furth Bioaccumulative potential No further re	relevant information available.	
Mobility in soil No further relevant inform	mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	the environment without proper governmental permits.	
Do not allow undiluted product or large q Avoid transfer into the environment	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	t	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local o	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be ma	nade according to official regulations	
14 Transport information Not a hazardous material for transportati	tion	
UN-Number		
DOT, IMDG, IATA	None	
UN proper shipping name	None	l
DOT, IMDG, IATA Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA		l
Class	None	
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.	
		(Contd. on page 4)

Product name: 2-Chloro-4,6-dimethylpyrimidine	
	(Contd. of page
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
to the second seco	
15 Regulatory information Safety, health and environmental regulations/legislati	tion specific for the substance or mixture
GHS label elements The product is classified and labeled Hazard pictograms	d in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning	
Hāzard statements [–] H315 Causes skin irritation. H319 Causes serious eve irritation.	
H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/va P280 Wear protective gloves/protective clot	apours/spray.
P280 Wear protective gloves/protective clot P305+P351+P338 IF IN EVES: Rinse cautiously with wat P304-P340 IF IN EVES Pamove person to fresh	ther for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a air and keep comfortable for breathing.
P405 Store locked up.	rain and keep connortable for breathing. ordance with local/regional/national/international regulations.
National regulations	
to research and development only. This product must be product must not be used for commercial purposes or in f	action Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes
SARA Section 313 (specific toxic chemical listings) Si California Proposition 65	Substance is not listed.
Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed	ce is not listed.
Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is Prop 65 - Developmental toxicity, male Substance is no	a. > not listed.
Information about limitation of use - For use only by ter	chnically qualified individuals
Substance of Very High Concern (SVHC) according to	ormically qualined individuals. ions o 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 th
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Asses	norisation for use) Substance is not listed.
16 Other information Employers should use this information only as a supplem	nent to other information gathered by them, and should make independent judgement of suitability of this
information to ensure proper use and protect the nearth a conformance with this Material Safety Data Sheet, or in c	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 Department Date of preparation / last revision 11/23/2015 / -	t
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Socie	itv)
Abbreviations and acronyms: 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) 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 (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
LD50: Lethal concentration, 30 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 Agéncy for Research on Cancer EPA: Environmental Protection Agency (USA)	US/
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USA ____