

Safety Data Sheet per OSHA HazCom 2012



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Product name: 2-Chloro-5-fluoropyrimidine

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5 Fire-fighting measures Exclusion and the second divide estinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. Special hazars artising from the substance on the rolescet: It is provide a size of the substance on the rolescet. Proceeding and the substance on the rolescet. It is provide a size of the substance on the rolescet. Proceeding and the substance on the rolescet. It is provide a size of the role of the role of the rolescet. Proceeding resultions, role of the role of the rolescet. Proceeding resultions, role of the role of the rolescet. Veer fully role of the role	Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eve damage.	
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Ensure adequade verifiation The advance of the environment without proper governmental permits. Wethout and the event fore-containment and cleaning up; Absorb with liquid-binding material (sand, diatonite, acid bindors, universal bindors, sawdust). Use neutraling agent Pervention of secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards: Keep away from (grittion sources. Reference to other secondary heards. See Section 13 for disposal information. 7 Handling and storage Handling Keep container tightly secled. Store in cod, wy lace in tightly closed containers. Ensure good vehilation at the workplace. Conditions for safe storage, including any incompatibilities Store in cod, wy lace in tightly closed containers. Reference to be met by storerooms and receptacles: No special requirements. Information about storage conditions: Key container tightly secled. 8 Exposure controls/personal protection Additional information about design of technical systems: Properties and used allowed information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properties and used formation and the stard available. 8 Exposure controls/personal protection Additional information and technical systems: Property operating chemical formation available. 8 Exposure controls/personal protection Additional information and technical systems: Property operating chemical formation available. 8 Exposure controls/personal protection Reference to diverse there and usent the dow designed for intercles with cricical values that have to be	6 Accidental release measures	
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good veniliation 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: Do not store together with acids. Berge container tightly sealed. Storage Further information about storage conditions: Keep container tightly sealed. Storage conditions in well sealed containers. Specific end use(s) No further relevant information available. Stora in cool, dry conditions in well sealed containers. Propenty operating chemical furme hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Propendy operating chemical furme hood designed for hazardous themicals values that have to be monitored at the workplace. Additional information chain any relevant quantifies of materials with critical values that have to be monitored at the workplace. Appendix does not contain any relevant quantifies of materials which critical values that have to be monitored at the workplace. Additional information about designed measures The product does not contain any relevant quantifies of mate	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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. 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.	
Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good veniliation 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: Do not store together with acids. Berge container tightly sealed. Storage Further information about storage conditions: Keep container tightly sealed. Storage conditions in well sealed containers. Specific end use(s) No further relevant information available. Stora in cool, dry conditions in well sealed containers. Propenty operating chemical furme hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Propendy operating chemical furme hood designed for hazardous themicals values that have to be monitored at the workplace. Additional information chain any relevant quantifies of materials with critical values that have to be monitored at the workplace. Appendix does not contain any relevant quantifies of materials which critical values that have to be monitored at the workplace. Additional information about designed measures The product does not contain any relevant quantifies of mate	7 Handling and storage	
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 Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodsfulfs, 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. Protection of hands: Impenvious 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. Protection: Tightly sealed goggles Full face protection	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: Do not store together with acids. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers.	
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	Lightly sealed goggles Full face protection	(Contd. on page 3) USA

Body protection: Protective work clothing.

(Contd. of page	2)
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Body protection: Protective work cloth	ing.	(Conta. or page 2)
9 Physical and chemical properties	3	
Information on basic physical and ch General Information Appearance:		
Form: Color:	Liquid Colorless to yellow	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	65 °C (149 °F) Not determined. Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Not determined Not determined	
Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined 1.073 g/cm³ (8.954 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	Not determined : Not determined. Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Acids Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen chloride (HCI)	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. Pacts with strong oxidizing agents t information available.	
LD/LC50 values that are relevant for of Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects know Carcinogenicity: No classification data Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	evere skin burns. rious eye damage. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. vn. - repeated exposure: No effects known. - single exposure: No effects known.	
12 Ecological information		
Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable.	her relevant information available. elevant information available. mation available. he environment without proper governmental permits. quantities to reach ground water, water course or sewage system. t	
Other adverse effects No further releva	มาแทบกาลแบบ สิ่งส์แสมเซ.	(Contd. on page 4)
		(Contd. on page 4)

(Contd. of page 3) 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Recommendation: Disposal must be made according to official regulations. 14 Transport information **UN-Number** DOT, IMDG, IATA UN3267 UN proper shipping name DOT Corrosive liquid, basic, organic, n.o.s. (2-Chloro-5-fluoropyrimidine) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (2-Chloro-5-fluoropyrimidine) ĨMDG, IATA Transport hazard class(es) DOT Class 8 Corrosive substances. Label 8 (C7) Corrosive substances Class Label IMDG, IATA Class 8 Corrosive substances 8 Label Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Warning: Corrosive substances F-A,S-B Special precautions for user EMS Number: Alkalis Segregation groups Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: рот Marine Pollutant (DOT): No UN "Model Regulation": UN3267, Corrosive liquid, basic, organic, n.o.s. (2-Chloro-5-fluoropyrimidine), 8, III 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) GHS label elements Hazard pictograms 12 GHS05 GHS06 Signal word Danger Hazard statements H227 Combustible liquid H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 P501

Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 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 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 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, and Substance is not listed.

 Prop 65 - Developmental toxicity, according to the REACH Regulations.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substan

Substance is not listed. 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.

- USA (Contd. on page 5)

Product name: 2-Chloro-5-fluoropyrimidine

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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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) 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 Agercent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent USA: Wry Persistent and very Bioaccumulative ACGIH: American Abstrau and Hadtin Administration (USA) MTP: National Toxicology Program (USA)

USA