

Safety Data Sheet per OSHA HazCom 2012



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Product name: 4-Chloro-6-ethyl-5-fluoropyrimidine

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After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate 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 Causes severe skin burms. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 Hydrogen fluoride (HF) 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 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). 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 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: 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. 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 Personal protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all solied 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. Mainting equipment: Use suitable respirator when high concentrations are present. Recations are appropriate government standards such as NIOSH (USA) or CEN (EU Protections of hands: Use a respirator with organic vapor/acid gas catridges as a backup to engineering controls. Risk assessment should be performed to determine if respirators are appropriate. Only use equipment: Use suitable respirator when high concentrations are present. Recations are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU 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. Penetr).
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Full face protection **Body protection:** Protective work clothing.

9 Physical	and	chemical	properties
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9 Physical and chemical propertie	S
Information on basic physical and cl General Information Appearance: Form: Color:	Liquid Pale yellow
Odor:	Not determined
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 210-211 °C (410-412 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	81 °C (178 °F) Not determined Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water Viscosity: dynamic: kinematic: Other information	Not determined Not determined Not determined Not determined 1.286 g/cm ³ (10.732 lbs/gal) Not determined. Not determined.
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recon Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further releval Incompatible materials: Acids Oxidizing agents Hazardous decomposition products.	to be avoided: Decomposition will not occur if used and stored according to specifications. leacts with strong oxidizing agents nt information available.

Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides

Hydrogen chloride (HCI)

11 Toxicological information

Information on toxicological effects Acute toxicity: Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. *Eye irritation or corrosion:* Causes serious eye damage. Sensitization: No sensitizing effects known. *Germ cell mutagenicity:* No effects known. *Carcinogenicity:* No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. *Reproductive toxicity:* No effects known. *Specific target organ system toxicity - repeated exposure:* No effects known. *Specific target organ system toxicity - single exposure:* No effects known. *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. 12 Ecological information
ECOIOGICAL Information Toxicity

 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 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.

USA (Contd. on page 4)

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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. (4-Chloro-6-ethyl-5-fluoropyrimidine) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (4-Chloro-6-ethyl-5-fluoropyrimidine) ĨMDG, IATA Transport hazard class(es) DOT Class 8 Corrosive substances Label Class ۶ 8 (C7) Corrosive substances Label IMDG, IATA 8 Corrosive substances. 8 Class I abel 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: DOT Marine Pollutant (DOT): No UN3267, Corrosive liquid, basic, organic, n.o.s. (4-Chloro-6-ethyl-5-fluoropyrimidine), 8, III UN "Model Regulation": 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 ! GHS05 GHS07 Signal word Danger **Hazard statements** H227 Combustible liquid. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. 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 Store locked up. 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 must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). 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 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. 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 must be observed. market and use must be observed. 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)

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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) L50: Lethal concentration As porcent UP: very Persistent and very Bioaccumulative ACGIH: American Abstration (USA) MTP: National Toxicology Program (USA)

USA