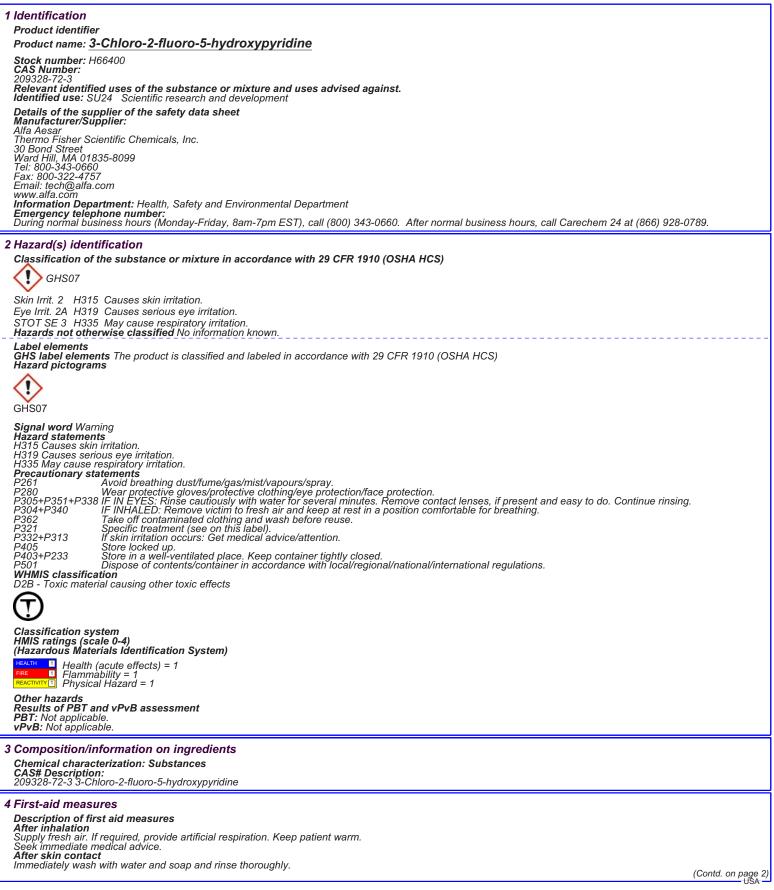
Safety Data Sheet acc. to OSHA HCS



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Safety Data Sheet

	ate 07/15/2016
Product name: 3-Chloro-2-fluoro-5-hydroxypyridine	
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 skin irritation. Causes serious eye irritation. May cause respiratory irritation. 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: 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. 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: Store in freezer (-20 °C). Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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 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 solied 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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determ purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 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. Eye protective: Protective work clothing. 	nine if air-
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Solid Odor: Not determined Odor threshold: Not determined. PH-value: Not applicable	

Not applicable.

pH-value:

(Contd. on page 3) USA

Product name: 3-Chloro-2-fluoro-5-hydroxypyridine

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(Contd. of page 2)

Change in condition Description of the second seco			(Conta. or page 2)
Explosion limits: Not determined Upper: Not determined Upper: Not determined Prestruction Additional construction Prestruction Not determined Prestructio	Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined Not determined Not determined	
Lower: Mod determined Vapor pressure: Mod applicable Density: Mod applicable Vapor density: Mod applicable More information Mod applicable Ammand:: Mod applicable Constitution: Mod applicable <	Danger of explosion:	Not determined.	
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OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed. 12 Ecological information Toxicity Aquatic toxicity: 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. vPVB: Not applicable. VPVB: Not applicable. VPUB: Not applicable. VDT, releaned packagings: Recommendation: Disposal must be made according to official regulations.	Acute toxicity: No effects known. LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes sen Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data Reproductive toxicity: No effects known. Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information:	in irritation. rious eye irritation. own. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. rn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
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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. 14 Transport information UN-Number DOT, ADN, IMDG, IATA Not applicable UN proper shipping name DOT, ADN, IMDG, IATA Not applicable	Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor- Additional ecological information: General notes: Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	elevant information available. mation available. quantities to reach ground water, water course or sewage system. t	
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			USA

USA -

	Revision date 07/15/2010
roduct name: 3-Chloro-2-fluoro-5-hydroxypyri	dine
	(Contd. of page 3
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	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 MARPOL	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
5 Regulatory information	
Safety, health and environmental regulations/legisla GHS label elements The product is classified and laber	ition specific for the substance or mixture led in accordance with 29 CER 1910 (OSHA HCS)
Hazard pictograms	
\wedge	
GHS07	
Signal word Warning	
Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
H335 May cause respiratory irritation.	
Precautionary statements	(vopeure/oper)
P261 Avoid breathing dust/fume/gas/mist/v P280 Wear protective gloves/protective clo	vapours/spray. othing/eye protection/face protection. rater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P305+P351+P338 IF IN EYES: Rinše cautiously with w P304+P340 IF INHALED: Remove victim to fresh	ater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a grand lease at read in a consistence confectable for heresthing.
P304+P340 IF INHALED: Remove victim to tresh P362 Take off contaminated clothing and v	h air and keep at rest in a position comfortable for breathing. wash before reuse.
P321 Specific treatment (see on this label)	
P332+P313 If skin irritation occurs: Get medical a P405 Store locked up.	advice/attention.
P403+P233 Store in a well-ventilated place. Keel	p container tightly closed.
P501 Dispose of contents/container in acc National regulations	ordance with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Prot	tection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricte e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This
to research and development only. This product must be product must not be used for commercial purposes or in	e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This a formulations for commercial purposes
This product is not listed on the Canadian Domestic Sul	n formulations for commercial purposes. bstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) California Proposition 65	Substance is not listed.
Prop 65 - Chemicals known to cause cancer Substar	nce is not listed.
Prop 65 - Developmental toxicity Substance is not list Prop 65 - Developmental toxicity, female Substance is	ted. in not listed
Prop 65 - Developmental toxicity, nella Substance is	not listed.
Prop 65 - Developmental toxicity, male Substance is Information about limitation of use: For use only by to Other regulations, limitations and prohibitive regula	echnically qualified individuals.
Substance of Verv High Concern (SVHC) according	to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.
The conditions of restrictions according to Article 6	7 and Annex XVII of the Regulátion (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed. Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Aut Chemical safety assessment: A Chemical Safety Asse	thorisation for use) Substance is not listed.
Unemical safety assessment: A Chemical Safety Asse	essment has not been carried out.
6 Other information	
Employers should use this information only as a suppler	ment to other information gathered by them, and should make independent judgement of suitability of this
conformance with this Material Safety Data Sheet, or in	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 07/18/2016 / -	
ADDIEVIATIONS and acronyms: ADD: Accord européen sur le transport des marchandises dangereuses p	ar Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical Soci	par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) viety) A)
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 Hydienists (USA	A)
OSHA: Occupational Safety and Health Administration (USÁ) NTP: National Toxicology Program (USA)	
IARC: International Agĕńcy fŏr Research on Cancer EPA: Environmental Protection Agency (USA)	
Chin Init O. Chin compared in limitation I forward Category C	

PRCC. International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 24: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3