



	Revision date 08/12/2016
1 Identification	
Product identifier Product name: 3-(Chloromethyl)pyridine hydrochloride	
Stock number: A13279, L02330 CAS Number:	
6959-48-4 EC number:	
230-150-4 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Alfa Aesar The Annual Statement of Chemicals, Inc.	
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fa:: 800-343-0600 Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (80	66) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Hazards not otherwise classified No information known.	
Label elements 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 H302 Harmful if swallowed	
H314 Causes severe skin burns and eye damage. Precautionary statements D220	
P260 Do not breatne dustrumergas/mistvapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 JE ON SKIN (or bair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower	
H314 Causes severe skin burns and eye damage. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/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 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P304 Display to fresh air and keep at rest in a position comfortable for breathing.	ue rinsing.
P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 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. WHMIS classification D2B - Toxic material causing other toxic effects	
E - Corrosive material	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH B Health (acute effects) = 3 FIRE D Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: COSE Use and the state of t	
6959-48-4 3-(Chloromethyl)pyridine hydrochloride Identification number(s): EC number: 230-150-4	
Lo number. 200-100-4	USA

USA (Contd. on page 2)

Product name: 3-(Chloromethyl)pyridine hydrochloride

(Contd. of page 1)

	(Contd. of page 1)
4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. 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 burns. Harmful if swallowed. Causes serious eye damage. 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 (HCl) 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: Use neutralizing agent. 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 Handle under dry protective gas. 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 water/moisture. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Store and 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 P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determinifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. 	'ermine if air- (Contd. on page 3)

Safety Data Sheet

Product name: 3-(Chloromethyl)pyridine hydrochloride Contid. of page (Contid. of p
Protection of hands: Impervious glows Interpretation of the proper condition. The selection of suitable glows not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Mitrie Tubber, NBR Penetration time of glove material (in minutes) 480 Genetration of the protection: Troffity sealed goggles Full face protection: Troffity sealed gogles Full face protection: Troffity sealed gogles Full face protection: Troffity sealed gogles Full face protection: Form: Crystalline powder Form: Crystalline powder Form: Form
Information on basic physical and chemical properties General Information Appearance: "Form: Crystalline powder Odor: Not determined Odor threshold: Not determined ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: Photomiling range: 136-142 °C (277-288 °F) Bolling point/Bolling range: Not determined Sublimation temperature: Not determined quoti splition temperature: Not determined Auto ispliting: Not determined Lower: Not determined Uoper: Not determined Vapor pressure: Not determined
Information on basic physical and chemical properties General Information Appearance: "Form: Crystalline powder Odor: Not determined Odor threshold: Not determined ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: ph-value (820 g/l) at 20 °C (68 °F): 3 Ghange in condition The control of threshold: Photomiling range: 136-142 °C (277-288 °F) Bolling point/Bolling range: Not determined Sublimation temperature: Not determined quoti splition temperature: Not determined Auto ispliting: Not determined Lower: Not determined Uoper: Not determined Vapor pressure: Not determined
Odor: Not determined Odor threshold: Not determined. pH-value (820 g/l) at 20 °C (68 °F): 3 Change in condition 136-142 °C (277-288 °F) Meding point/Medining range: Not determined Sublimation temperature's start: Not determined. Flammability (solid) (gaseous) Not determined. Decomposition temperature: Not determined. Danger of explosion: Not determined. Zuborg: Not determined. Danger of explosion: Not determined. Upper: Not determined. Upper: Not determined. Upper: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density Not applicable. Vapor density Not applicable. Viscosity: Not applicable.
pH-value (820 g/l) at 20 °C (68 °F): 3 Change in condition Meiting point/Boiling range: 136-142 °C (277-288 °F) Boiling point/Boiling range: Not determined Sublimation temperature: Not determined Ignition temperature: Not determined Decomposition temperature: Not determined Decomposition temperature: Not determined Danger of explosion: Not determined. Explosion limits: Not determined. Lower: Not determined. Vapor pressure: Not determined. Density: Not determined. Vapor pressure: Not determined. Vapor foressure: Not determined. Vapor density Not determined. Vapor foressure: Not applicable. Vapor forestre: Not applicable. Vapor forestre: Not applicable. Vapor forestre: Not determined. Vapor forestre: Not applicable. Vapor forestre: Not applicable. Vapor forestre: Not applicable. Vapor forestre: Not determined. Sotubling meetficient (n-octanol/water): Not dete
Change in condition Melting point/Boiling range: Sublimation temperature / start: Planmability (solid) gaseous/ Mol determined Planmability (solid) gaseous/ Mol determined Decomposition temperature: Mol determined Decomposition temperature: Mol determined Decomposition temperature: Mol determined Auto igniting: Danger of explosion: Mol determined Auto igniting: Not determined Decomposition temperature: Mol determined Decomposition temperature: Mol determined Decomposition temperature: Not determined Upper: Not determined Upper: Not determined Vapor pressure: Not determined. Explosion Wol determined Vapor pressure: Not determined. Vapor density Vapor density Vapor density Vapor density Not applicable. Solubility in / Miscibility with Water at 20 °C (8° F): Solubility in / Miscibility with Water at 20 °C (8° F): Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Solubility in / Miscibility with Water at 20 °C (8° F): Not applicable. Not applicable. N
Explosion limits: Not determined Upper: Not determined Vapor pressure: Not determined Density: Not determined Relative density Not determined. Vapor density Not determined. Relative density Not applicable. Evaporation rate Not applicable. Solubility in / Miscibility with Water at 20 °C (68 °F): % applicable. 820 g/l Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. kinematic: Not applicable. ofter information Not determined. Viscosity: dynamic: dynamic: Not applicable. kinematic: Not applicable. other information No further relevant information available. 0 Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. <t< td=""></t<>
Vapor density Not applicable. Evaporation rate Not applicable. Solubility in / Miscibility with Water at 20 °C (68 °F): 820 g/l Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. dynamic: Not applicable. Not applicable. Not applicable. dynamic: Not applicable. Not applicable. other information No further relevant information available. 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to over in available. Uncompatible materials: Waterinoisture Waterinoisture Oxidizing agents
Other information No further relevant information available. 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with storage oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Water/moisture Oxidizing agents Oxidizing agents
Carbon monoxide and carbon dioxide 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. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.
LD/LC50 values that are relevant for classification:
Oral LD50 316 mg/kg (rat) Skin irritation or corrosion: Causes servere skin burns. Eye irritation or corrosion: Causes servere skin burns. Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. Carcinogenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. 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. 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.
Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.

(Contd. on page 4) USA

Safe	etv Da	ta She	eet
acc. t	o OSHA	HCS	

	Revisio	011 Uale 00/12/2010
Product name: 3-(Chloromethyl)pyridine hydrochloride		
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, wa 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.	ter course or sewage system.	(Contd. of page 3)
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulations		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3261	
UN proper shipping name DOT		
DOT IMDG, IATA	Corrosive solid, acidic, organic, n.o.s. (3-(Chloromethyl)pyridine h CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (3-(Chlorometh hydrochloride)	ydrochloride) yl)pyridine
Transport hazard class(es) DOT		
Class Label Class Label IMDG, IATA	8 Corrosive substances. 8 8 (C4) Corrosive substances 8	
Class Label	8 Corrosive substances. 8	
Packing group DOT, IMDG, IATA	///	
Environmental hazards:	Not applicable.	
Special precautions for user Segregation groups	Warning: Corrosive substances Acids	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC C	Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (3-(Chloromethyl), hydrochloride), 8, III	pyridine
15 Regulatory information Safety, health and environmental regulations/legislation specific for the GHS label elements The product is classified and labeled in accordance with Hazard pictograms GHS05 GHS07 Signal word Danger		
Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection P305+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all cl P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting P304+P340 IF INHALED: Remove victim to fresh air and keep at rest P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with local/re National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic to research and development only. This product must be used by or directly product must not be used for commercial purposes or in formulations for contrins product is not listed on the Canadian Domestic Substances List (DSL) SARA Section 313 (specific toxic chemical listings) Substance is not listed. SARA Section 313 (specific toxic chemical listings) Substance is not listed.	egional/national/international regulations. Substances Control Act Chemical Substance Inventory. Use of this pr under the supervision of a technically qualified individual as defined by mmercial purposes. or the Canadian Non-Domestic Substances List (NDSL).	roduct is restricted /TSCA. This
,		(Contd. on page 5)

Product name: 3-(Chloromethyl)pyridine hydrochloride

(Contd. of page 4)

USA

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. 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. 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. 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 08/16/2016 / -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 EIATA: International Air Transport Association of the American Chemical Substances EIATA: International Air Transport Association System (USA) WHMIS: Workpitche Hazardous Materials Information System (Canada) LEGS: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent DAGE: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox: A cute Toxicity, Hazard Category 1 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1