



1 I dentification Product name: 1-(4-Pyrtidy))pyridinium chloride hydrochloride Step number: A 1738 Step numbe
Product name: 1:4:2-Pyridyl)pyridinium chloride hydrochloride         Stock number:         Relevant HeartIfied uses of the substance or mixture and uses advised against.         Relevant HeartIfied use:         Details of the subplier of the safety data sheet         Mundacture/Supplier:         Manufacture/Supplier:         Manufacture/Supplic:         Manufacture/Suppl
Stock number:       Alt 392-1         CAS Number:       Get 192-1         Cas Number:       Prevent Identified uses of the substance or mixture and uses advised against.         Mediation of the subplier of the safety data sheet       Manufacture/Supplier:         Manufacture/Supplier:       The safety data sheet         Werd Hill, MA 0105:202-4477       Termine Fisher Scientific Chemicals, Inc.         30 Bond Steel       Other Safety data sheet         Marker State Safety data sheet       Manufacture/Fishey data sheet         Marker State Safety data sheet       Manufacture/Fisheet         Marker State Safety data s
CAS Number:         GM 1:8-1:         Exploring:         Exploring:         Relevant identified uses of the substance or mixture and uses advised against.         Meditaria:         Relevant identified use: SU24 Scientific research and development         Details of the supplier of the safety data sheet         Manufacturer/Supplier:         Tam Ros:         Went Hull, MO 1835-8009         Family:         Email:         Motion:         Details of Belancon         www.wilds.com         Information:         Information:         Details of Belancon         www.wilds.com         Information:         Information:         During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         Z Hazerd(s) identification         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Or Sion Imit: 2         Belais of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Chastification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Sion Imit: 2       H35 Gauses serious eye irritation.         Sion Imit: 3       Havard statomets         Sio
E.G. number:       278:543         278:543       domitted uses of the substance or mixture and uses advised against.         Methodified use:       SL24         Scientific research and development         Details of the supplier of the safety data sheet         Manifecture/Supplier:         Alfa Assa         Thermo Fisher         Ward Hull, Wo (1935-800)         Tes:       800-343-0680         Tes:       800-322-4157         Base of the subplier of the substance or mixture in decordance with 29 CFR 1910 (OSHA HCS)         Outring Information Department:         Energency telephone number:         During Information of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Or Fish         Of HS07         Skin Intri 2       H315         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Of HS07         Skin Intri 2       H315         Skin Intri 2       H315         Classified elements: The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Of Hs07       Signal word Warning         Hazerd statements       Harder Statements         Hazerd Statements       Harder Statements         H35       Harder Statements
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Details of the supplier of the safety data sheet         ManufacturerSupplier:         All A Aesar         Thermo Fisher Scientific Chemicals, Inc.         30 Bord Street         with 43-0660         Fax: 800-322-4757         Email: Icol Wahlow         Email: Icol Wahlow         Www.alla.com         www.alla.com         Www.alla.com         With Wahlow         During normal business hours: (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. <b>2 Hazard</b> (s) identification         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         GHS07         Skin Imt. 2       H319 Causes skin irritation.         Eye Irrit. 2A H319 Causes serious eye irritation.         Hazard's not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         Hazard's Interements         Hasing Causer serion irritation.         Hasing Causer serion irritation.         FYS ISE       H32 May eauser serion irritation.         Hazard's Interements       Havarto serion.         <
Affa Aesar       Thermo Fisher Scientific Chemicals, Inc.         30 Bornd Street       305-8009         Thermo Fisher Scientific Chemicals, Inc.       305-8009         76: 800-324-4757       Email: Ecol Balia.com         Email: Ecol Balia.com       www.affa.com         www.affa.com       www.affa.com         www.affa.com       www.affa.com         www.affa.com       www.affa.com         www.affa.com       www.affa.com         www.affa.com       www.affa.com         www.affa.com       moments         Uning normal business hours (Monday-Friday, Bam-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         2 Hazard(s) identification       Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Ør       GHS07         Skin Intit. 2 H315 Causes skin irritation.       Store Statements         Fyr Int. 2 H315 Gauses serious eye irritation.       Store Statements         GHS07       Signal word Warning         Hazard's label elements       Herody irritation.         Hazard statements       Herody irritation.         Hazard's classes serious eye irritation.       Hazard's classes serious eye irritation.         Hazard's label elements       Herody irritation.         Hazard's clasees serious eye
30 Bond Street       ward Hill, MA (1832-0099)         Ward Hill, MA (1832-0009)       Tex 800-832-4070         Email: text Ballac.com       www.alfa.com         www.alfa.com       www.alfa.com         www.alfa.com       until on Department: Health, Safety and Environmental Department         Email: text Ballac.com       www.alfa.com         Work Hill, MA (1832-400)       Text Ballace Shows (Monday-Friday, Bam-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         2 Hazard(s) identification       Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) <ul> <li></li></ul>
Email: tech @alla.com         www.aika.com         information Department: Health, Safety and Environmental Department         Emergency telephone number:         During normal business hours (Monday-Friday, Bam-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.         2 Hazard(s) identification         Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Image: Status of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)         Status of therwise classified No information known.         Label elements         GHS label elements         GHS label elements         GHS label elements         Hazard statements         Hazard statements         H316 Causes skin initiation.         H317 Causes skin initiation.         H317 Causes skin initiation.         H318 Causes skin initiation.         H319 Causes skin initiation.         H316 Causes skin initiation.         H316 Causes skin initi
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Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE3 H335 May cause respiratory irritation. 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
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WHMIS classification
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Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH       I       Health (acute effects) = 1         IRRE       I       Flammability = 1
Image:
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable.
vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
5421-92-1 1-(4-Pyridyl)pyridinium chloride hydrochloride Identification number(s):
EC number: 226-543-5

	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact After skin contact Immediately wash with water and soap and rinse thoroughly.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
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.	
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	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
<b>Methods and material for containment and cleaning up:</b> 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 7 for Information on safe nandling 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 hydroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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 solled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	
Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. <b>Protection of hands:</b>	ermine if air:
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.	
Material of gloves Nitrile rubber, NBR	(Contd. on page 3)
	(Conta. on page o)

## Product name: 1-(4-Pyridyl)pyridinium chloride hydrochloride

Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm Eye protection: Safety glasses Body protection: Protective work clothing.

(Contd. of page 2)

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9 Physical and chemical properties	;		
Information on basic physical and chemical properties			
General Information			
Appearance:	Solid		
Form: Odor:	Solid Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range:	166-170 °C (331-338 °F)		
Boiling point/Boiling range:	Not determined		
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.		
Ignition temperature: Decomposition temperature:	Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion: Explosion limits:	Not determined.		
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure: Density:	Not applicable. Not determined		
Relative density	Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water:	Not determined		
Partition coefficient (n-octanol/water)			
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
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. Incompatible materials: Water/moisture Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI)			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. 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 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 infi 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. Other adverse effects No further relevant	rer relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. <b>t</b>		
		USA USA	
		(Contd. on page 4)	

## Product name: 1-(4-Pyridyl)pyridinium chloride hydrochloride

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## 13 Disposal considerations

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	
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 MARPOL73/78 and the IBC C	ode Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
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 wit Hazard pictograms	h 29 CFR 1910 (OSHA HCS)	
$\checkmark$		
GHS07		
Signal word Warning Hazard statements         H315 Causes skin irritation.         H319 Causes skin irritation.         H319 Causes skin irritation.         H319 Causes skin irritation.         H319 Causes skin irritation.         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/spray.         P305-P331-P338 [I'N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P304-P340       IF INFALED: Remove within to fresh air and keep at rest in a position comfortable for breathing.         P302       Take off contaminated clothing and wash before reuse.         P323       Store in a well-ventilated place. Keep container tightly closed.         P403+P233       Store in a well-ventilated place. Keep container tightly closed.         P403       Dispose of contents/container in accordance with local/regional/national/international regulations.         National regulations       All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.         All components of this product are listed in the U.S. Environmental Foundationes List (NDSL).         SARA Section 313 (Specific toxic chemical listings) Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.		
Annex XIV of the REACH Regulations (requiring Authorisation for use) s Chemical safety assessment: A Chemical Safety Assessment has not been 16 Other information	Substance is not listed. n carried out.	

USHA: Occupational Safety and Health Administratic NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

## Product name: 1-(4-Pyridyl)pyridinium chloride hydrochloride

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Page 5/5 Printing date 08/01/2016 Revision date 07/29/2016

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