



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. 2 Hazard (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. <
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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	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
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 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. Protection of hands:	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. t		
		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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