

# **4-Chloropyridine-2-carboxylic acid** Safety Data Sheet 4H215W4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/25/2016 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form	· · · · · · · · · · · · · · · · · · ·			
Product torm	Cultatanaa			
	: Substance			
Substance name	: 4-Chloropyridine-2-carboxylic acid			
CAS No	: 5470-22-4			
roduct code	: 4H21-5-W4			
formula	: C6H4CINO2			
Synonyms : 4-Chloropicolinic acid; 2-Carboxy-4-chloropyridine				
Other means of identification	: MFCD00191400			
.2. Relevant identified uses of the sub	stance or mixture and uses advised against			
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development			
.3. Details of the supplier of the safety	v data sheet			
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America Γ (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlabs.com</u>	<u>əm</u>			
.4. Emergency telephone number				
mergency number	: (844) 523-4086 (3E Company - Account 10069)			
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or r	mixture			
Classification (GHS-US)				
Eye Irrit. 2A     H319 - Causes serious e       STOT SE 3     H335 - May cause respir       Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)	GHS07			
	: Warning			
Signal word (GHS-US)	: H302 - Harmful if swallowed			
Signal word (GHS-US) Hazard statements (GHS-US)	H302 - Harmun in Swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation			
5 ( )	H315 - Causes skin irritation H319 - Causes serious eye irritation			

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		P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3.	Other hazards				
	tional information available				
2.4. Unknown acute toxicity (GHS US)					
Not app					
SECT	ION 3: Composition/information	on in	gredients		
3.1. Substance					
Substar	nce type	Mono	constituent		
Name			Product identifier	%	Classification (GHS-US)
	ropyridine-2-carboxylic acid onstituent)		(CAS No) 5470-22-4	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				
3.2.	Mixture				
Not app					
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.					
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention.					
First-aid			with plenty of soap and water. Get me		
First-aic	rst-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.				
First-aid	irst-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.				
4.2.	2. Most important symptoms and effects, both acute and delayed				
Sympto	ms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
4.3.	Indication of any immediate medical a	ttentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry priate for surrounding fire.	powder. Water	spray. Use extinguishing media
5.2.	Special hazards arising from the subs	tance	or mixture		
Fire haz	re hazard : Thermal decomposition generates: Carbon oxides. Hydrogen chloride. Nitrogen oxides.				
5.3.	Advice for firefighters				
Firefigh	ting instructions :	In cas	se of fire: Evacuate area.		
Protecti	Protection during firefighting : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".				
SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
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6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions	i de la constante d		
Avoid release to the environment. Notif	y authorities if product enters sewers or public waters.		
6.3. Methods and material for c	.3. Methods and material for containment and cleaning up		
For containment	: Stop leak if safe to do so.		
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.		
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".		
6.4. Reference to other sections	S		
No additional information available			
SECTION 7: Handling and sto	prage		
7.1. Precautions for safe handli	ing		
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage	e, including any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storogo orog			

Storage area : Store in dry, cool, well-ventilated area.

### **SECTION 8: Exposure controls/personal protection**

**Control parameters** 8.1.

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: 188 - 190 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 157.55 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	itional information available
10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

us decomposition products should not be produced. Hazardous decomposition products in case fire, see Section 5.

### **SECTION 11: Toxicological information**

Information on toxicological effects 11.1.

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	SECTION 12: Ecological information				
12.1.	Toxicity				
No addi	tional information available				
12.2.	Persistence and degradability				
No addi	tional information available				
12.3.	Bioaccumulative potential				
No additional information available					
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#### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubbe
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informat	ion
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated for transport	
TDG	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informa	ation
15.1. US Federal regulations	
All components of this product are listed, of Substances Control Act (TSCA) inventory	or excluded from listing, on the United States Environmental Protection Agency Toxic except for:
4-Chloropyridine-2-carboxylic acid	CAS No 5470-22-4 100%
	a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 4
	equirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 19
CFR §372.38(a) subject to the reporting read and 40 CFR Part 372.	
CFR §372.38(a) subject to the reporting re and 40 CFR Part 372. 15.2. International regulations CANADA	
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CFR §372.38(a) subject to the reporting re and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b>	
CFR §372.38(a) subject to the reporting re and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available	
CFR §372.38(a) subject to the reporting re and 40 CFR Part 372. <b>15.2. International regulations</b> <b>CANADA</b> No additional information available <b>EU-Regulations</b>	

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### **SECTION 16: Other information**

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Full tex	t of H-phrases:			
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
	Skin Irrit. 2		Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H302		Harmful if swallowed	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
<ul> <li>NFPA health hazard</li> <li>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</li> <li>NFPA fire hazard</li> <li>0 - Materials that will not burn.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>		residual injury unless prompt ourn. under fire exposure conditions,		
HMIS I	II Rating			
Health : 3 Serious Hazard - Ma given			or injury likely unless prompt action is taken and medical treatment is	
Flammability : 0 Minimal Hazard - Mate		: 0 Minimal Hazard - Mate	terials that will not burn	
			erials that are normally stable, even under fire conditions, and will NOT rize, decompose, condense, or self-react. Non-Explosives.	

#### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.