

## Safety Data Sheet 4H21724

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/11/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Chloro-5-(trifluoromethyl)pyridine-3,4-dicarboxylic acid
CAS No	: 518989-97-4
Product code	: 4H21-7-24
Formula	: C8H3CIF3NO4
Other means of identification	: MFCD01862024
1.2. Relevant identified uses of the sub-	stance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safety	data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye irrita STOT SE 3 H335 - May cause respiratory in Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P261 - Avoid breathing dust, mist, spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P332+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> </ul>

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P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information o	on ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
2-Chloro-5-(trifluoromethyl)pyridine-3,4-dicarboxylic acid (Main constituent)	(CAS No) 518989-97-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16	·		
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	In case of accident or if you feel un where possible). Move the affected		
	Remove person to fresh air and kee respiration. Get medical advice/atte		eathing. If not breathing, give artificial
	Wash with plenty of soap and wate		
First-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 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. Most important symptoms and effects, I	both acute and delayed		
	The most important known symptor 2.2) and/or in section 11.	ns and effects are de	scribed in the labelling (see section
4.3. Indication of any immediate medical atte	ention and special treatment nee	ded	
Treat symptomatically.			
SECTION 5: Firefighting measures			
Extinguishing media           Suitable extinguishing media         : .	Alcohol resistant foam. Carbon diox appropriate for surrounding fire.	ide. Dry powder. Wa	ter spray. Use extinguishing media
<b>Extinguishing media</b> Suitable extinguishing media         :	appropriate for surrounding fire.	ide. Dry powder. Wa	ter spray. Use extinguishing media
5.1.       Extinguishing media         Suitable extinguishing media	appropriate for surrounding fire.		
5.1.       Extinguishing media         Suitable extinguishing media       :	appropriate for surrounding fire. ance or mixture Thermal decomposition generates:		
5.1.       Extinguishing media         Suitable extinguishing media       :	appropriate for surrounding fire. ance or mixture Thermal decomposition generates:		
Suitable extinguishing media	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective	Carbon oxides. Hydr	ogen chloride. Hydrogen fluoride.
5.1.       Extinguishing media         Suitable extinguishing media       :         5.2.       Special hazards arising from the substa         Fire hazard       :         5.3.       Advice for firefighters         Firefighting instructions       :         Protection during firefighting       :	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r	Carbon oxides. Hydr	ogen chloride. Hydrogen fluoride. tion with self contained breathing
5.1. Extinguishing media         Suitable extinguishing media         5.2. Special hazards arising from the substa         Fire hazard         5.3. Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release measure	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r	Carbon oxides. Hydr	ogen chloride. Hydrogen fluoride. tion with self contained breathing
5.1.       Extinguishing media         Suitable extinguishing media       :         Suitable extinguishing media       :         5.2.       Special hazards arising from the substa         Fire hazard       :         5.3.       Advice for firefighters         Firefighting instructions       :         Protection during firefighting       :         SECTION 6: Accidental release measure         6.1.       Personal precautions, protective equipper	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r	Carbon oxides. Hydro e clothing in combina efer to section 8: "Exp	ogen chloride. Hydrogen fluoride. tion with self contained breathing posure controls/personal protection".
5.1.       Extinguishing media         Suitable extinguishing media       :         Suitable extinguishing media       :         5.2.       Special hazards arising from the substa         Fire hazard       :         5.3.       Advice for firefighters         Firefighting instructions       :         Protection during firefighting       :         SECTION 6: Accidental release measure         6.1.       Personal precautions, protective equiper         General measures       :         6.1.1.       For non-emergency personnel	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r CS ment and emergency procedures	Carbon oxides. Hydro e clothing in combina efer to section 8: "Exp Ensure adequate air v	ogen chloride. Hydrogen fluoride. tion with self contained breathing posure controls/personal protection".
5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         5.2. Special hazards arising from the substa         Fire hazard         5.3. Advice for firefighters         Firefighting instructions         Protection during firefighting         SECTION 6: Accidental release measure         6.1. Personal precautions, protective equipre         General measures         c.1. For non-emergency personnel         Emergency procedures	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r es ment and emergency procedures Evacuate unnecessary personnel. I	Carbon oxides. Hydro e clothing in combina efer to section 8: "Exp Ensure adequate air v	ogen chloride. Hydrogen fluoride. tion with self contained breathing posure controls/personal protection".
5.1.       Extinguishing media         Suitable extinguishing media       :	appropriate for surrounding fire. ance or mixture Thermal decomposition generates: Nitrogen oxides. In case of fire: Evacuate area. Wear gas tight chemically protective apparatus. For further information r es ment and emergency procedures Evacuate unnecessary personnel. I	Carbon oxides. Hydro e clothing in combina efer to section 8: "Exp Ensure adequate air v with suitable protective ut suitable protective	ogen chloride. Hydrogen fluoride. tion with self contained breathing posure controls/personal protection". ventilation. Do not breathe dust. re equipment may intervene. equipment. For further information

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6.3. 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		
No additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
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, include	ding any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	
Storage area	: Store in dry, cool, well-ventilated area.	

### SECTION 8: Exposure controls/personal protection

#### **Control parameters** 8.1.

No additional information available

#### **SECTION 9: Physical and chemical properties** Information on basic physical and chemical properties 9.1. Physical state : Solid : No data available Color Odor : No data available Odor threshold No data available : No data available pН : No data available Melting point Freezing point : No data available : No data available Boiling point 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 Oxidizing properties : No data available Vapor pressure : No data available : No data available Relative density Relative vapor density at 20 °C : No data available Molecular mass : 269.56 g/mol 12/08/2016

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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

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

No additional information available

SECT	ION 10: Stability and reactivity	ty	
10.1.	Reactivity		
No add	itional information available		
10.2.	Chemical stability		
The pro	oduct is stable at normal handling and s	torage conditions.	
10.3.	Possibility of hazardous reactions		
No add	itional information available		
10.4.	Conditions to avoid		
Keep a	way from heat, sparks and flame.		
10.5.	Incompatible materials		
	bases. Strong oxidizing agents.		
10.6.			
Under r		azardous decomposition products should not be produced. Hazardous decomposition products in case of	
SECT	ION 11: Toxicological inform	ation	
11.1.	Information on toxicological effect		
Acute to	oxicity	: Not classified	
Serious Respira Germ c	rrosion/irritation s eye damage/irritation atory or skin sensitization ell mutagenicity ogenicity	<ul> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>	

- : Not classified
- Specific target organ toxicity (single exposure) : May cause respiratory irritation.
- Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard

Reproductive toxicity

: Not classified

SECT	SECTION 12: Ecological information				
12.1.	Toxicity				
No addi	No additional information available				
12.2.	Persistence and degradability				
No addi	No additional information available				
12.3.	Bioaccumulative potential				
No addi	No additional information available				
12.4.	Mobility in soil				
No additional information available					
12.5.	Other adverse effects				
No additional information available					
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OFOTION 40. Diseased as a side set	
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
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 informatio	n
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 information	on
15.1. US Federal regulations	
All components of this product are listed, or e Substances Control Act (TSCA) inventory ex	excluded from listing, on the United States Environmental Protection Agency Toxic acept for:

2-Chloro-5-(trifluoromethyl)pyridine-3,4-dicarboxylic acid	CAS No 518989-97-4	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

CANADA

No additional information available

**EU-Regulations** No additional information available

### **National regulations**

No additional information available

### 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**

Full text of H-phrases:

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
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, 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.