

Pyridine-3-sulfonyl fluoride Safety Data Sheet 8H62306 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/02/2017 Version: 1.0

SECTION 1: Identifica 1.1. Identification Product form		
Product form		
		: Substance
Substance name		: Pvridine-3-sulfonyl fluoride
CAS No		: 1373307-61-9
Product code		: 8H62-3-06
Froduct code		: C5H4FNO2S
		: MFCD26935998
Other means of identificatior	-	
		ance or mixture and uses advised against
Use of the substance/mixtur	e	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the sup	oplier of the safety da	ata sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United T (386) 462-0788 - F (386) 4 info@synquestlabs.com - w	States of America 462-7097	
1.4. Emergency telep	hone number	
Emergency number		: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s	) identification	
2.1. Classification of	the substance or mix	tture
Classification (GHS-US)		
Eye Dam. 1 I	H318 - Causes seriou H335 - May cause res	
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US	5)	
		GHS05 GHS07
Signal word (GHS-US)		: Danger
Hazard statements (GHS-US	3)	: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (G	βHS-US)	<ul> <li>P260 - Do not breathe dust/fume/gas/mist/vapors/spray</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</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>P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse</li> </ul>

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	P330 - Rinse mouth P362+P364 - Take off contaminated P363 - Wash contaminated clothing b P403+P233 - Store in a well-ventilate P405 - Store locked up	P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed	
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)	)		
Not applicable			
SECTION 3: Composition/informat	tion on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Pyridine-3-sulfonyl fluoride (Main constituent)	(CAS No) 1373307-61-9	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16	l l		
3.2. Mixture			
Not applicable			
Not applicable SECTION 4: First aid measures			
Not applicable SECTION 4: First aid measures I.1. Description of first aid measures	: In case of accident or if you feel unwe where possible). Move the affected p		
Not applicable         SECTION 4: First aid measures         4.1.       Description of first aid measures         First-aid measures general	: In case of accident or if you feel unwe	ersonnel away from the comfortable for brea	ne contaminated area.
Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation	<ul> <li>In case of accident or if you feel unwer where possible). Move the affected p</li> <li>Remove person to fresh air and keep</li> </ul>	ersonnel away from the comfortable for bread dvice/attention. Remove contaminate 5% calcium gluconate	ne contaminated area. thing. If not breathing, give artificial d clothing and shoes. In case of skin e gel continuously into the affected
Not applicable SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	<ul> <li>In case of accident or if you feel unwer where possible). Move the affected p</li> <li>Remove person to fresh air and keep respiration. Get immediate medical a</li> <li>Wash with plenty of soap and water. contact, wearing rubber gloves rub 2. area for 1.5 hours or until further medical</li> </ul>	ersonnel away from the comfortable for breat dvice/attention. Remove contaminate 5% calcium gluconate dical care is available.	ne contaminated area. thing. If not breathing, give artificial d clothing and shoes. In case of skin e gel continuously into the affected Get immediate medical 5 minutes. Remove contact lenses, if
Not applicable <b>SECTION 4: First aid measures</b> <b>1. Description of first aid measures</b> First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	<ul> <li>In case of accident or if you feel unwer where possible). Move the affected p</li> <li>Remove person to fresh air and keep respiration. Get immediate medical a</li> <li>Wash with plenty of soap and water. contact, wearing rubber gloves rub 2 area for 1.5 hours or until further med advice/attention.</li> <li>Immediately flush eyes thoroughly with a statemed advice and a statemed advice and a statemed advice and a statemed advice advice attention.</li> </ul>	ersonnel away from the comfortable for bread dvice/attention. Remove contaminate 5% calcium gluconate dical care is available. th water for at least 1 sing. Get immediate n anything by mouth to	ne contaminated area. thing. If not breathing, give artificial d clothing and shoes. In case of skin e gel continuously into the affected Get immediate medical 5 minutes. Remove contact lenses, if nedical advice/attention. an unconscious person. Rinse
Not applicable SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>In case of accident or if you feel unway where possible). Move the affected p</li> <li>Remove person to fresh air and keep respiration. Get immediate medical a</li> <li>Wash with plenty of soap and water. contact, wearing rubber gloves rub 2. area for 1.5 hours or until further mediadvice/attention.</li> <li>Immediately flush eyes thoroughly with present and easy to do. Continue rinst</li> <li>Do NOT induce vomiting. Never give mouth out with water. Get immediate</li> </ul>	ersonnel away from the comfortable for bread dvice/attention. Remove contaminate 5% calcium gluconate dical care is available. th water for at least 1 sing. Get immediate n anything by mouth to	ne contaminated area. thing. If not breathing, give artificial d clothing and shoes. In case of skin e gel continuously into the affected Get immediate medical 5 minutes. Remove contact lenses, if nedical advice/attention. an unconscious person. Rinse
Not applicable SECTION 4: First aid measures I.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion I.2. Most important symptoms and effective I.3. Most important symptoms and III III III III III III III III III I	<ul> <li>In case of accident or if you feel unway where possible). Move the affected p</li> <li>Remove person to fresh air and keep respiration. Get immediate medical a</li> <li>Wash with plenty of soap and water. contact, wearing rubber gloves rub 2. area for 1.5 hours or until further mediadvice/attention.</li> <li>Immediately flush eyes thoroughly with present and easy to do. Continue rinst</li> <li>Do NOT induce vomiting. Never give mouth out with water. Get immediate</li> </ul>	ersonnel away from the comfortable for breat dvice/attention. Remove contaminate 5% calcium gluconate dical care is available. th water for at least 1. sing. Get immediate n anything by mouth to medical advice/attention	he contaminated area. thing. If not breathing, give artificial d clothing and shoes. In case of skin e gel continuously into the affected Get immediate medical 5 minutes. Remove contact lenses, if hedical advice/attention. an unconscious person. Rinse tion.
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SECT	ION 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2.	Special hazards arising from the sul	ostance or mixture
Fire haz	ard	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides. Sulfur oxides.
Explosio	on hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.
5.3.	Advice for firefighters	
Firefight	ing instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

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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 mea	asures
6.1. Personal precautions, protective e	quipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2. Environmental precautions	
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	ent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
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 fumes, mist, spray, vapors. 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, includ	ing any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
Special rules on packaging	: Do not store in glass.

### SECTION 8: Exposure controls/personal protection

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

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.

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<b>SECTION 9: Physical and chemica</b>	Il properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
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
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	: 161.15 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	
SECTION 10: Stability and reactivi	ity
10.1. Reactivity	
No additional information available	

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas. Contact with water liberates toxic gas.

**10.4.** Conditions to avoid Keep away from heat, sparks and flame.

10.5. Incompatible materials

Acids. Glass. Strong bases. Strong oxidizing agents. Water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

Acute toxicity       : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.         Skin corrosion/irritation       : Causes severe skin burns and eye damage.	Skin corrosion/irritation       : Causes severe skin burns and eye damage.         Serious eye damage/irritation       : Causes serious eye damage.			
Acute toxicity       : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.         Skin corrosion/irritation       : Causes severe skin burns and eye damage.	Acute toxicity       : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.         Skin corrosion/irritation       : Causes severe skin burns and eye damage.	Respiratory or skin sensitization	: Not classified	
Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.	Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.	Serious eye damage/irritation	: Causes serious eye damage.	
		Skin corrosion/irritation	: Causes severe skin burns and eye damage.	
11.1. Information on toxicological effects	11.1. Information on toxicological effects	Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful	n contact with skin. Inhalation: Harmful if inhaled.
		11.1. Information on toxicological effects		

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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
Potential Adverse human health effects and symptoms	: Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys).
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information
12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations		
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 information**

### Department of Transportation (DOT)

In accordance with DOT Transport document description

### UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : UN3265 Corrosive liquid, acidic, organic, n.o.s., 8, III
- : UN3265
- : Corrosive liquid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
<b>TDG</b> No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3265
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3265
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger
CECTION 45. Domulatory information	

### SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (TSCA) Inventory except for:		
Pyridine-3-sulfonyl fluoride	CAS No 1373307-61-9	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

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

Full	text of	H-phrases:	
i un		ri pinasos.	

	Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Corr. 1B	Skin corrosion/irritation Category 1B
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H314	Causes severe skin burns and eye damage
	H318	Causes serious eye damage
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
	ire hazard reactivity	<ul> <li>given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
HMIS I	II Rating	
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flamm	<ul> <li>ability</li> <li>Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>	
		: 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.