

Safety Data Sheet 8669309 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0 Date of issue: 04/04/2016

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-(4-Fluorobenzenesulfonyl)pyrrolidine-2-carboxylic acid
CAS No	: 251096-96-5
Product code	: 8669-3-09
Formula	: C11H12FNO4S
Other means of identification	: MFCD00172808
1.2. Relevant identified uses of the substa	ance 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 da	ata 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	
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 mix	xture
Classification (GHS-US)	
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatioSTOT SE 3H335 - May cause respiratory irritaFull 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</li> <li>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>P321 - Specific treatment (see supplemental first aid instructions on this label)</li> <li>P332+P313 - If skin irritation occurs: 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

	- Dispose of contents/container		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substance			
Substance type :	Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1-(4-Fluorobenzenesulfonyl)pyrrolidine-2-carboxylic acid (Main constituent)	(CAS No) 251096-96-5	<= 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			
First-aid measures general :	In case of accident or if you feel unwe where possible). Move the affected p		
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 measures after skin contact :			
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,	both acute and delayed		
Symptoms/injuries :	The most important known symptoms 2.2) and/or in section 11.	and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate medical at	ention and special treatment neede	ed	
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	Alcohol resistant foam. Carbon dioxic appropriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the subst			
	Thermal decomposition generates: C	arbon oxides. Hydrode	n fluoride. Nitrogen oxides. Sulfur
	oxides.		n nuonue. Nilogen oxides. Ound
5.3. Advice for firefighters			
5 5 5	: In case of fire: Evacuate area.		
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 measu	es		
6.1. Personal precautions, protective equip	ment and emergency procedures		
General measures :	Evacuate unnecessary personnel. Er	sure adequate air vent	ilation. Do not breathe dust.
6.1.1.         For non-emergency personnel           Emergency procedures         :	Only qualified personnel equipped wi	th suitable protective e	quipment may intervene.
6.1.2.         For emergency responders           Protective equipment         :	Do not attempt to take action without refer to section 8: "Exposure controls		ipment. For further information
6.2. Environmental precautions			
	f product enters sewers or public wat	ers.	

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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 section	ons
No additional information available	
SECTION 7: Handling and s	torage
7.1. Precautions for safe han	dling
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.

		Shoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includi	ing any incompatibilities
Technie	cal measures	: Comply with applicable regulations.
Storage	econditions	: Keep container closed when not in use.
Incomp	atible materials	: Refer to Section 10 on Incompatible Materials.
Storage	e area	: Store in dry, cool, well-ventilated area.

### 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.

## SECTION 9: Physical and chemical properties

9	0.1. Information on basic physical a	nd chemical properties	
P	Physical state	: Solid	
C	Color	: No data available	
C	Ddor	: No data available	
C	Ddor threshold	: No data available	
р	Н	: No data available	
Ν	<i>I</i> lelting point	: 96 - 99 °C	
F	Freezing point	: No data available	
E	Boiling point	: No data available	
F	Flash point	: No data available	
F	Relative evaporation rate (butyl acetate=1)	: No data available	
F	Flammability (solid, gas)	: No data available	
E	Explosion limits	: No data available	
E	Explosive properties	: No data available	
C	Dxidizing properties	: No data available	
٧	/apor pressure	: No data available	
F	Relative density	: No data available	
F	Relative vapor density at 20 °C	: No data available	
Ν	<i>l</i> olecular mass	: 273.28 g/mol	

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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

### 9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and storage conditions.		
10.3. Possibility of hazardous reactions		
No additional information available		
10.4. Conditions to avoid		
Keep away from heat, sparks and flame.		
10.5. Incompatible materials		
Strong oxidizing agents.		
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.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity : Not classified		
Skin corrosion/irritation : Causes skin irritation.		

Skin conosion/initiation	. Causes skin initation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	: Not classified : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard

: Not classified

SECT	ION 12: Ecological information	on		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No add	itional information available			
12.5.	Other adverse effects			
No add	itional information available			
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SECTION 13: Disposal consideration	15
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.
<b>SECTION 14: Transport information</b>	
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	
<b>SECTION 15: Regulatory information</b>	1
15.1. US Federal regulations	
All components of this product are listed, or ex- Substances Control Act (TSCA) inventory exce	cluded from listing, on the United States Environmental Protection Agency Toxic

	1-(4-Fluorobenzenesulfonyl)pyrrolidine-2-carboxylic acid	CAS No 251096-96-5	100%
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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.