

Safety Data Sheet 4257301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/25/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 1-Amino-3,3-difluorocyclobutanecarboxylic acid
CAS No	: 1225532-86-4
Product code	: 4257-3-01
ormula	: C5H7F2NO2
Synonyms	: 1-Amino-3,3-difluorocyclobutane-1-carboxylic acid
Other means of identification	: MFCD17480490
.2. Relevant identified uses of the s	substance 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 saf	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ F (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - <u>www.synquestlabs</u>	
.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
STOT SE 3 H335 - May cause respirator	
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16	
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STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	y irritation
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements	y irritation : CHS07
STOT SE 3 H335 - May cause respirator Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	y irritation : : : : : : : : : : : : :

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	on ingredients			
3.1. Substance				
Substance type :	Mono-constituent			
Name	Product identifier % Classification (GHS-US)			
1-Amino-3,3-difluorocyclobutanecarboxylic acid	(CAS No) 12255		<= 100	Skin Irrit. 2, H315
(Main constituent)				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 :				mmediately (show the label
	, ,	ve the affected personnel		
First-aid measures after inhalation :	respiration. Get med		able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact :	•	soap and water. Get med	ical advice/atten	tion.
First-aid measures after eye contact :	Immediately flush ey	es thoroughly with water	for at least 15 m	inutes. Remove contact lenses, if
		do. Continue rinsing. Get		
First-aid measures after ingestion :		iting. Never give anything r. Get medical advice/atte		unconscious person. Rinse
			nuon.	
4.2. Most important symptoms and effects			oto oro doporibo	ad in the lebelling (and postion
Symptoms/injuries :	2.2) and/or in section		ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical a	tention and special	treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media Suitable extinguishing media :	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media			
Suitable extinguishing media .	appropriate for surro			
5.2. Special hazards arising from the substance or mixture				
l c	: Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.			
5.3. Advice for firefighters				
	: In case of fire: Evacuate area.			
	: 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	<b>'</b> es			
		ev procedures		
	precautions, protective equipment and emergency procedures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.			
6.1.1. For non-emergency personnel	o			
Emergency procedures :	Only qualified person	nnel equipped with suitabl	e protective equ	lipment may intervene.
6.1.2. For emergency responders				
Protective equipment :	Do not attempt to tal	ke action without suitable	protective equip	ment. For further information
	refer to section 8: "E	xposure controls/persona	i protection".	
6.2. Environmental precautions				

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3.	Methods and material for containm	ent and cleaning up
For cor	tainment	: Stop leak if safe to do so.
Method	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other in	nformation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions 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.
Hygien	e 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. 0	Conditions for safe storage, includi	ing	any incompatibilities
Technical r	measures	:	Comply with applicable regulations.
Storage co	nditions	:	Keep container closed when not in use.

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Incompatible materials	: Refer to Section 10 on Incompatible Materials.
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Storage 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**

9.1. Information on basic physical an	nd chemical properties
Physical state	: Solid
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	: 151.11 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 fire, see Section 5.
SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity : Not classified

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

**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

Aspiration hazard

: Not classified

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SECTION 13: Disposal consideration	bns
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>	h .
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 informatic</b>	on .
15.1. US Federal regulations	
All components of this product are listed, or e Substances Control Act (TSCA) inventory exc	excluded from listing, on the United States Environmental Protection Agency Toxic cept for:

1-Amino-3,3-difluorocyclobutanecarboxylic acid	CAS No 1225532-86-4	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.