

# 2,3-Difluorobenzoic acid hydrazide

Safety Data Sheet 4656332 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/07/2021 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2,3-Difluorobenzoic acid hydrazide
CAS No	: 387358-53-4
Product code	: 4656-3-32
Formula	: C7H6F2N2O
Other means of identification	: MFCD02183536
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 d 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 mi	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> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>

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.3. Other hazards				
o additional information available				
4. Unknown acute toxicity (GHS US	5)			
ot applicable				
ECTION 3: Composition/informa	tion on ingred	ients		
.1. Substance				
Substance type	: Mono-cons	tituent		
Name	Pro	duct identifier	%	Classification (GHS-US)
2,3-Difluorobenzoic acid hydrazide (Main constituent)	(CAS	No) 387358-53-4	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text of H-phrases: see section 16	I			,
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
I.1. Description of first aid measures				
First-aid measures general		accident or if you feel un sible). Move the affected	-	ce immediately (show the label ne contaminated area.
First-aid measures after inhalation		erson to fresh air and kee Get medical advice/atte		thing. If not breathing, give artificial
First-aid measures after skin contact		plenty of soap and wate		
First-aid measures after eye contact	present and	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		duce vomiting. Never giv with water. Get medical		an unconscious person. Rinse
I.2. Most important symptoms and e	ffects, both acute	and delayed		
Symptoms/injuries	mptoms/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 med	ical attention and	special treatment nee	ded	
Freat symptomatically.				
SECTION 5: Firefighting measures	S			
5.1. Extinguishing media				
Suitable extinguishing media		istant foam. Carbon diox for surrounding fire.	kide. Dry powder. Wate	r spray. Use extinguishing media
5.2. Special hazards arising from the	substance or mix	ture		
Fire hazard	: Thermal de	composition generates:	Carbon oxides. Hydrog	en fluoride. Nitrogen oxides.
5.3. Advice for firefighters		-		
Firefighting instructions	: In case of fi	re: Evacuate area.		
Protection during firefighting	<ul> <li>In case of fire: Evacuate area.</li> <li>Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".</li> </ul>			
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment and e	mergency procedures		
Seneral measures	: Evacuate u	nnecessary personnel.	Ensure adequate air ver	ntilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
mergency procedures	: Only qualifi	ed personnel equipped	with suitable protective	equipment may intervene.
6.1.2. For emergency responders				
Protective equipment		mpt to take action without tion 8: "Exposure contro		uipment. For further information
6.2. Environmental precautions				
Avoid release to the environment. Notify auth	orities if product er	iters sewers or public w	aters.	
.3. Methods and material for contair	ment and cleanin	ig up		
For containment	: Stop leak if			
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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 stora	age
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.
ygiene 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.
2.2. Conditions for safe storage, i	ncluding any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Air sensitive. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage temperature	: 2 - 8 °C
Storage area	: Store in dry, 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 and	I chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 127 - 129 °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
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	: 172.1321 g/mol
Solubility	: No data available

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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	
<b>SECTION 10: Stability and reactivity</b>	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	rage 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, haz fire, see Section 5.	rardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	ion
SECTION 11: Toxicological informat 11.1. Information on toxicological effects	
11.1.         Information on toxicological effects           Acute toxicity	: Not classified
11.1.         Information on toxicological effects           Acute toxicity         Skin corrosion/irritation	: Not classified : Causes skin irritation.
11.1.         Information on toxicological effects           Acute toxicity         Skin corrosion/irritation           Serious eye damage/irritation	: Not classified
Information on toxicological effects           Acute toxicity           Skin corrosion/irritation           Serious eye damage/irritation           Respiratory or skin sensitization	<ul> <li>Not classified</li> <li>Causes skin irritation.</li> <li>Causes serious eye irritation.</li> </ul>
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No additional information available

12.5. Other adverse effects

No additional information available

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# SECTION 13: Disposal considerations 13.1. 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 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

#### 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:

2,3-Difluorobenzoic acid hydrazideCAS No 387358-53-4100%
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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.