

Safety Data Sheet 26293X9 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/29/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2,4-Difluoromandelic acid
CAS No	: 132741-30-1
Product code	: 2629-3-X9
Formula	: C8H6F2O3
Other means of identification	: MFCD00061296
1.2. Relevant identified uses of the sul	ostance 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 safet	y 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.c	om
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	
Classification (GHS-US)	
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irrit	ation
STOT SE 3 H335 - May cause respiratory i	
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</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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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	)			
lot applicable				
SECTION 3: Composition/informa	tion on ingredier	its		
.1. Substance				
Substance type	: Mono-constitue	∍nt		
Name	Produc	t identifier	%	Classification (GHS-US)
2,4-Difluoromandelic acid (Main constituent)	(CAS No)	132741-30-1	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
full text of H-phrases: see section 16	I			
.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
irst-aid measures general		dent or if you feel unwe ). Move the affected pe		e immediately (show the label e contaminated area.
irst-aid measures after inhalation		n to fresh air and keep t medical advice/attent		ning. If not breathing, give artificial
irst-aid measures after skin contact	•	ty of soap and water.		
irst-aid measures after eye contact	present and ea	sy to do. Continue rins	ing. Get medical advic	
irst-aid measures after ingestion		e vomiting. Never give water. Get medical ad		an unconscious person. Rinse
.2. Most important symptoms and e				
ymptoms/injuries	: The most impo 2.2) and/or in s		and effects are descri	ibed in the labelling (see section
.3. Indication of any immediate med	ical attention and sp	ecial treatment neede	ed	
reat symptomatically.				
ECTION 5: Firefighting measure	S			
.1. Extinguishing media				
uitable extinguishing media		nt foam. Carbon dioxid surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
.2. Special hazards arising from the	substance or mixtur	e		
ire hazard	: Thermal decor	nposition generates: Ca	arbon oxides. Hydroge	en fluoride.
.3. Advice for firefighters		-	, 0	
irefighting instructions	: In case of fire:	Evacuate area.		
rotection during firefighting	: Wear gas tight	chemically protective of		with self contained breathing ure controls/personal protection".
ECTION 6: Accidental release m	easures			
.1. Personal precautions, protective	equipment and eme	rgency procedures		
eneral measures			sure adequate air ven	tilation. Do not breathe dust.
.1.1. For non-emergency personnel				
mergency procedures	: Only qualified	personnel equipped wit	th suitable protective e	quipment may intervene.
.1.2. For emergency responders				
rotective equipment		to take action without 8: "Exposure controls/		ipment. For further information
.2. Environmental precautions				
void release to the environment. Notify auth	orities if product enter	s sewers or public wate	ers.	
.3. Methods and material for contain	iment and cleaning u	p		
or containment	: Stop leak if saf	e to do so.		
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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 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.

7.2. Conditions for safe storage, including any incompatibilities		
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Hygroscopic. 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

#### 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**

Physical state Color	: Solid : No data available : No data available
Color	
	· No dete overleble
Odor	. NO data avaliable
Odor threshold	: No data available
рН	: No data available
Melting point	: 123 - 125 °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	: 188.13 g/mol
Solubility	: No data available
Log Pow	: No data available

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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	3
<b>SECTION 10: Stability and</b>	a reactivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal har	ndling and storage conditions.
10.3. Possibility of hazardou	is reactions
No additional information available	3
10.4. Conditions to avoid	
Keep away from heat, sparks and	flame.
10.5. Incompatible materials	s and the second se
Strong oxidizing agents.	
10.6. Hazardous decomposit	tion products
Under normal conditions of storage fire, see Section 5.	e and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case
<b>SECTION 11: Toxicologica</b>	al information
11.1. Information on toxicolo	ogical effects
Acute toxicity	: Not classified
Skin corrosion/irritation	· Causes skin irritation

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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 Specific target organ toxicity (single exposure)	<ul> <li>Not classified</li> <li>May cause respiratory irritation.</li> </ul>
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

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

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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

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:

2,4-Difluoromandelic acid	CAS No 132741-30-1	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.