

**3,5-Difluoromandelic acid** Safety Data Sheet 2629335 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	
	. Substance
Product form	: Substance
Substance name	: 3,5-Difluoromandelic acid
CAS No	: 132741-31-2
Product code	: 2629-3-35
Formula	: C8H6F2O3
Other means of identification	: MFCD00061300
	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	
	: (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. 2 H315 - Causes skin irritation	
Eye Irrit. 2A H319 - Causes serious eye irritatio	
STOT SE 3 H335 - May cause respiratory irrita	ation
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 addi	tional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app	licable				
SECT	ON 3: Composition/information	on in	gredients		
3.1.	Substance				
Substar	ice type	Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	uoromandelic acid nstituent)		(CAS No) 132741-31-2	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16				<u> </u>
3.2.	Mixture				
Not app					
SECT	ON 4: First aid measures				
4.1.	Description of first aid measures				
	C C	where	se of accident or if you feel unwell, seek possible). Move the affected personnel	away from the	contaminated area.
		respii	ove person to fresh air and keep comfortation. Get medical advice/attention.		
			with plenty of soap and water. Get med		
		prese	diately flush eyes thoroughly with water nt and easy to do. Continue rinsing. Get	medical advice	attention.
First-aid	measures after ingestion		OT induce vomiting. Never give anything out with water. Get medical advice/atte		unconscious person. Rinse
4.2.	Most important symptoms and effects				
Symptoms/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 medical a	ttentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ON 5: Firefighting measures				
5.1.	Extinguishing media				
			ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the subs	tance	or mixture		
Fire haz			nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride.
5.3.	Advice for firefighters			, ,	
	•	In cas	se of fire: Evacuate area.		
-	on during firefighting	Wear	gas tight chemically protective clothing i atus. For further information refer to sec		
SECT	ON 6: Accidental release measu	ires			
6.1.	Personal precautions, protective equi		and emergency procedures		
General			uate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1.	For non-emergency personnel				
Emerge	ncy procedures :	Only	qualified personnel equipped with suitable	le protective equ	uipment may intervene.
6.1.2.	For emergency responders				
			ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information
6.2.	Environmental precautions				
Avoid re	lease to the environment. Notify authorities	s if proc	luct enters sewers or public waters.		
6.3.	Methods and material for containment	t and c	eaning up		
			leak if safe to do so.		
40/00/00					

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: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
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.
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, includi	ing 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**

9.1. Information on basic physical a	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	: 135 - 137 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °C
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
SECTION 10: Stability and	d reactivity
10.1. Reactivity	
No additional information available	3
10.2. Chemical stability	
The product is stable at normal ha	andling and storage conditions.
10.3. Possibility of hazardou	us reactions
No additional information available	9
10.4. Conditions to avoid	
Keep away from heat, sparks and	flame.
10.5. Incompatible materials	ŝ
Strong oxidizing agents.	
10.6. Hazardous decomposi	ition products
Under normal conditions of storag fire, see Section 5.	e and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
<b>SECTION 11: Toxicologic</b>	al information
11.1. Information on toxicol	ogical effects
Acute toxicity	: Not classified

Not classified
Causes skin irritation.
Causes serious eye irritation.
lot classified
Not classified
Not classified
lot classified
Nay cause respiratory irritation.
lot classified
lot 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:

3,5-Difluoromandelic acid	CAS No 132741-31-2	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.