

Safety Data Sheet 66603M2 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/05/2015 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: 2,3-Difluoro-4-formylbenzeneboronic acid			
CAS No	: 480424-84-8			
Product code	: 6660-3-M2			
Formula	: C7H5BF2O3			
Other means of identification	: MFCD04039907			
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				
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 irritationSTOT SE 3H335 - May cause respiratory irritation			
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</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>P337+P313 - If eye irritation persists: 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	y, March 26,			
2.3. Other hazards No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on ind	aradiants		
3.1. Substance		greatents		
Substance type	: Mono	constituent		
Name			%	Classification (CHS US)
2,3-Difluoro-4-formylbenzeneboronic acid		Product identifier (CAS No) 480424-84-8	<b>70</b>	Classification (GHS-US) 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		e effective to a life out for the		a de la contra da de la de la contra de la de la d
First-aid measures general	where	possible). Move the affected	personnel away fro	
First-aid measures after inhalation	respira	ation. Get medical advice/atte	ntion.	reathing. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water		
First-aid measures after eye contact	prese	nt and easy to do. Continue ri	nsing. Get medical	
First-aid measures after ingestion		out with water. Get medical a		h to an unconscious person. Rinse
4.2. Most important symptoms and effe				
Symptoms/injuries		ost important known symptor nd/or in section 11.	ns and effects are	lescribed in the labelling (see section
4.3. Indication of any immediate medic	al attentior	and special treatment nee	led	
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
		ol resistant foam. Carbon diox priate for surrounding fire.	ide. Dry powder. V	ater spray. Use extinguishing media
Suitable extinguishing media	appro	priate for surrounding fire.	ide. Dry powder. V	ater spray. Use extinguishing media
Suitable extinguishing media 5.2. Special hazards arising from the suitable strains are supported as the suitable strains are supported as the suitable strains are supported as the subscripts are supported as the supported as the support of the supported as the support of the supported as the support of	appro ubstance o	priate for surrounding fire. r mixture		ater spray. Use extinguishing media
Suitable extinguishing media 5.2. Special hazards arising from the series hazard	appro ubstance o	priate for surrounding fire. r mixture		
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Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard 5.3. Advice for firefighters Protection during firefighting	appro ubstance o : Therm : Do no refer t	priate for surrounding fire. In mixture hal decomposition generates: t attempt to take action withou	Borane/boron oxid	es. Carbon oxides. Hydrogen fluoride.
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Suitable extinguishing media         5.2.       Special hazards arising from the suffice hazard         Fire hazard         5.3.       Advice for firefighters         Protection during firefighting         SECTION 6: Accidental release mea         6.1.       Personal precautions, protective e	appro ubstance o : Therm : Do no refer t asures quipment a : Evacu	oriate for surrounding fire. or mixture hal decomposition generates: t attempt to take action without o section 8: "Exposure contro and emergency procedures	Borane/boron oxid t suitable protectiv s/personal protecti	es. Carbon oxides. Hydrogen fluoride.
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Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release mea 5.1. Personal precautions, protective e General measures 5.1.1. For non-emergency personnel	appro ubstance o : Therm : Do no refer t asures quipment a : Evacu breath	priate for surrounding fire. In mixture hal decomposition generates: t attempt to take action without to section 8: "Exposure contro and emergency procedures hate unnecessary personnel. Even the dust.	Borane/boron oxid t suitable protectiv s/personal protecti	es. Carbon oxides. Hydrogen fluoride. e equipment. For further information on".
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Suitable extinguishing media         5.2.       Special hazards arising from the strain free hazard         5.3.       Advice for firefighters         Protection during firefighting         SECTION 6: Accidental release mea         6.1.       Personal precautions, protective e         General measures         6.1.1.       For non-emergency personnel         Emergency procedures         6.1.2.       For emergency responders	appro ubstance o : Therm : Do no refer t asures quipment a : Evacu breath : Only o : Do no	priate for surrounding fire. In mixture hal decomposition generates: t attempt to take action without t o section 8: "Exposure contro and emergency procedures hate unnecessary personnel. E he dust. qualified personnel equipped to	Borane/boron oxid t suitable protectiv s/personal protectiv insure adequate ai vith suitable protectiv t suitable protectiv	es. Carbon oxides. Hydrogen fluoride. e equipment. For further information on". r ventilation. Avoid raising dust. Do not ive equipment may intervene. e equipment. For further information
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Suitable extinguishing media         5.2.       Special hazards arising from the suffice hazard         Fire hazard         5.3.       Advice for firefighters         Protection during firefighting         SECTION 6: Accidental release means         6.1.       Personal precautions, protective e         General measures         6.1.1.       For non-emergency personnel         Emergency procedures         6.1.2.       For emergency responders         Protective equipment         6.2.       Environmental precautions	appro ubstance o : Therm : Do no refer t asures quipment a : Evacu breath : Only o : Do no refer t	briate for surrounding fire. In mixture hal decomposition generates: t attempt to take action withou to section 8: "Exposure contro and emergency procedures hate unnecessary personnel. For the dust. qualified personnel equipped to t attempt to take action withou to section 8: "Exposure contro	Borane/boron oxid t suitable protectiv s/personal protecti insure adequate ai vith suitable protectiv t suitable protectiv s/personal protectiv	es. Carbon oxides. Hydrogen fluoride. e equipment. For further information on". r ventilation. Avoid raising dust. Do not ive equipment may intervene. e equipment. For further information
Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard 5.3. Advice for firefighters Protection during firefighting SECTION 6: Accidental release mea 6.1. Personal precautions, protective e General measures 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment	appro ubstance o : Therm : Do no refer t asures quipment a : Evacu breath : Only o : Do no refer t	briate for surrounding fire. In mixture hal decomposition generates: t attempt to take action without t attempt to take action without and emergency procedures hate unnecessary personnel. E le dust. qualified personnel equipped without t attempt to take action without	Borane/boron oxide t suitable protectiv s/personal protection insure adequate ai with suitable protectiv s/personal protectiv t suitable protectiv s/personal protectiv	es. Carbon oxides. Hydrogen fluoride. e equipment. For further information on". r ventilation. Avoid raising dust. Do not ive equipment may intervene. e equipment. For further information

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Other information		: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	
6.4.	Reference to other sections		
No add	tional information available		
SECT	ION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precaut	ions for safe handling	: Ensure good ventilation of the work station. Do not breathe dust. Avoid raising dust. Wear personal protective equipment. Avoid contact with skin and eyes.	
Hygiene	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. Conditions for safe storage, including any incompatibilities			
Storage	conditions	: Keep container tightly closed.	
Incomp	atible 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.		
Eye protection	: Chemical goggles or safety glasses. Face shield.		
Skin and body protection	: Wear suitable protective clothing.		
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.		

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: > 300 °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	: 185.92 g/mol
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

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9.2.	Other information				
No addi	No additional information available				
SECT	SECTION 10: Stability and reactivity				
10.1.	Reactivity				
No addi	No additional information available				
10.2.	Chemical stability				
The pro	The product is stable at normal handling and storage conditions.				
10.3.	Possibility of hazardous reactions				
No addi	No additional information available				
10.4.	Conditions to avoid				
No addi	No additional information available				
10.5.	Incompatible materials				
No addi	No additional information available				
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		
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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
Aspiration hazard	: 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			

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.		

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# **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-Difluoro-4-formylbenzeneboronic acid

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.

CAS No 480424-84-8

100%

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#### **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

NFPA health hazard	<ol> <li>1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.</li> </ol>	
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.	

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HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
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.