

Safety Data Sheet 2329341

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/08/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
	Substance
Substance name :	Ethyl 2-(ethoxymethylene)-4,4-difluoro-3-oxobutyrate
CAS No :	176969-33-8
Product code :	2329-3-41
Formula	C9H12F2O4
Synonyms	Ethyl 2-(ethoxymethylene)-4,4-difluoro(acetoacetate)
Other means of identification :	MFCD10567161
1.2. Relevant identified uses of the substa	nce 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	ta 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	
Emergency number :	(844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	ture
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)	 P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

	1 301 - Dispose of contents/container		
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GH	5 05)		
lot applicable			
ECTION 3: Composition/info	rmation on ingredients		
.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Ethyl 2-(ethoxymethylene)-4,4-difluoro-3-oxo (Main constituent)	obutyrate (CAS No) 176969-33-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16			,
.2. Mixture			
lot applicable	-		
ECTION 4: First aid measure			
.1. Description of first aid meas			immediately (show the lates)
irst-aid measures general	: In case of accident or if you feel unwel where possible). Move the affected pe	rsonnel away from the	contaminated area.
irst-aid measures after inhalation	: Remove person to fresh air and keep respiration. Get medical advice/attention		ng. If not breathing, give artificial
irst-aid measures after skin contact	: Wash with plenty of soap and water. G		
irst-aid measures after eye contact	: Immediately flush eyes thoroughly with present and easy to do. Continue rinsi		
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give a mouth out with water. Get medical adv	, , ,	n unconscious person. Rinse
.2. Most important symptoms a	nd effects, both acute and delayed		
ymptoms/injuries	: The most important known symptoms 2.2) and/or in section 11.	and effects are describ	ed in the labelling (see section
I.3. Indication of any immediate	medical attention and special treatment needed	d	
reat symptomatically.			
SECTION 5: Firefighting meas	ures		
.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide	e. Drv powder. Water s	pray. Use extinguishing media
	appropriate for surrounding fire.		
.2. Special hazards arising from	n the substance or mixture		
ire hazard	: Thermal decomposition generates: Ca	rbon oxides. Hydroger	n fluoride.
xplosion hazard	: Risk of explosion if heated under confi containers.	nement. Use water sp	ay or fog for cooling exposed
	containers.		
.3. Advice for firefighters	containers.		
Ŭ	: In case of fire: Evacuate area. Fight fir	e remotely due to the	isk of explosion.
Firefighting instructions		lothing in combination	with self contained breathing
Firefighting instructions Protection during firefighting SECTION 6: Accidental releas	 In case of fire: Evacuate area. Fight fir Wear gas tight chemically protective c apparatus. For further information refe e measures 	lothing in combination	with self contained breathing
Protection during firefighting SECTION 6: Accidental releas 5.1. Personal precautions, prote	 In case of fire: Evacuate area. Fight fir Wear gas tight chemically protective c apparatus. For further information refe e measures ctive equipment and emergency procedures 	lothing in combination r to section 8: "Exposu	with self contained breathing re controls/personal protection".
Firefighting instructions Protection during firefighting EECTION 6: Accidental releas 5.1. Personal precautions, prote	 In case of fire: Evacuate area. Fight fir Wear gas tight chemically protective c apparatus. For further information refe e measures 	lothing in combination r to section 8: "Exposu	with self contained breathing re controls/personal protection".
Protection during firefighting	 In case of fire: Evacuate area. Fight fire Wear gas tight chemically protective of apparatus. For further information reference emeasures emeasures ctive equipment and emergency procedures Evacuate unnecessary personnel. Ensuration of spray. 	lothing in combination r to section 8: "Exposu	with self contained breathing re controls/personal protection".
Firefighting instructions Protection during firefighting SECTION 6: Accidental releas 5.1. Personal precautions, prote General measures	 In case of fire: Evacuate area. Fight fire Wear gas tight chemically protective of apparatus. For further information reference emeasures emeasures ctive equipment and emergency procedures Evacuate unnecessary personnel. Ensuration of spray. 	lothing in combination r to section 8: "Exposu sure adequate air venti	with self contained breathing re controls/personal protection". lation. Do not breathe gas, fumes,
Cirefighting instructions Protection during firefighting CECTION 6: Accidental releas C.1. Personal precautions, prote Ceneral measures C.1.1. For non-emergency personnel	 In case of fire: Evacuate area. Fight fire: Wear gas tight chemically protective of apparatus. For further information reference emeasures emeasures ctive equipment and emergency procedures Evacuate unnecessary personnel. Ensity vapor or spray. 	lothing in combination r to section 8: "Exposu sure adequate air venti	with self contained breathing re controls/personal protection". lation. Do not breathe gas, fumes,
SECTION 6: Accidental releas SECTION 6: Accidental releas A.1. Personal precautions, prote Seneral measures A.1.1. For non-emergency personr Emergency procedures	 In case of fire: Evacuate area. Fight fire: Wear gas tight chemically protective of apparatus. For further information reference emeasures emeasures ctive equipment and emergency procedures Evacuate unnecessary personnel. Ensity vapor or spray. 	lothing in combination r to section 8: "Exposu sure adequate air venti n suitable protective equi	with self contained breathing re controls/personal protection". lation. Do not breathe gas, fumes, uipment may intervene.

6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Wethods for cleaning up : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep is spills into appropriate container for disposal. Ventilate area. Other information : For disposal of solid materials or residues refer to section 13 : "Disposal consideration 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ensure goo ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear perso protective equipment. Avoid contact with skin and eyes. Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities : Keep container closed when not in use. Moisture sensitive. Keep contents under inert noromatible materials Storage temperature : Q. 8 °C Use explosion proof erigierator Storage temperature : 2 - 8 °C Use explosion proof refrigerator Storage temperature : Store in dry, well-ventilated area.	nergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Methods for cleaning up : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or spills into appropriate container for disposal. Ventilate area. Other information : For disposal of solid materials or residues refer to section 13 : "Disposal consideration of the vork station 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 go ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear persor protective equipment. Avoid contact with skin and eyes. Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, including any incompatibilities : Comply with applicable regulations. Storage conditions : Keep container closed when not in use. Moisture sensitive. Keep contents under inertile incompatible materials. Storage temperature : 2 - 8 °C Use explosion proof refrigerator Storage area : Store in dry, well-ventilated area.	2. Environmental precautions	
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Methods for cleaning up : Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep is spills into appropriate container for disposal. Ventilate area. Other information : For disposal of solid materials or residues refer to section 13 : "Disposal consideration 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Ensure go ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear perso protective equipment. Avoid contact with skin and eyes. Hygiene measures : Handle in accordance with good industrial hygiene and safety product. 7.2. Conditions for safe storage, including any incompatibilities : Comply with applicable regulations. Storage conditions : Keep container closed when not in use. Moisture sensitive. Keep contents under inert storage temperature Storage temperature : 2 - 8 °C Use explosion proof refrigerator Storage area : Store in dry, well-ventilated area.	3. Methods and material for containme	nt and cleaning up
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No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe storage, including any incompatibilities Technical measures Preconditions Precontainer closed when not in use. Moisture sensitive. Keep	her information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
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Storage conditions : Keep container closed when not in use. Moisture sensitive. Keep contents under inert Incompatible materials : Refer to Section 10 on Incompatible Materials. Storage temperature : 2 - 8 °C Use explosion proof refrigerator Storage area : Store in dry, well-ventilated area.	2. Conditions for safe storage, includir	ng any incompatibilities
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Storage temperature: 2 - 8 °C Use explosion proof refrigeratorStorage area: Store in dry, well-ventilated area.	orage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Storage area : Store in dry, well-ventilated area.	compatible materials	•
	orage temperature	
SECTION 8: Exposure controls/personal protection	orage area	: Store in dry, well-ventilated area.
	ECTION 8: Exposure controls/perse	onal protection
8.1. Control parameters		

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 c	hemical properties
Physical state	: Liquid
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	: 101 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available

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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	: 222.19 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

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 acids. Strong bases. Strong oxidizing agents. Strong reducing 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 of 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
Aspiration hazard	: Not classified

SECTIO	SECTION 12: Ecological information			
12.1.	Toxicity			
No additio	nal information available			
12.2.	Persistence and degradability			
No additional information available				

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12.3.	Bioaccumulative potential			
No addi	No additional information available			
12.4.	Mobility in soil			
No addi	No additional information available			
no adai				
12.5.	Other adverse effects			
12.3.	Other auverse checks			

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Waste disposal recommendations

- : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. : 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:

Ethyl 2-(ethoxymethylene)-4,4-difluoro-3-oxobutyrate	CAS No 176969-33-8	100%
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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

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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	
NFPA health hazard NFPA fire hazard NFPA reactivity	 : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. : 1 - Must be preheated before ignition can occur. : 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	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) 	
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.