

Methyl 4,4,4-trifluorobutyrate Safety Data Sheet 2123370 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/02/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl 4,4,4-trifluorobutyrate
CAS No	: 2365-82-4
Product code	: 2123-3-70
Formula	: C5H7F3O2
Other means of identification	: MFCD04038323
	substance 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 sa	ifety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Amer T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements	irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation bry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation by irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	irritation bry irritation
Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation by irritation irritation

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	P312 P321 P332 P337 P362 P370 P403 P403 P405	s, if present and easy to do. Continue rin - Call a POISON CENTER or doctor/phy - Specific treatment (see supplemental fi +P313 - If skin irritation occurs: Get medi +P313 - If eye irritation persists: Get medi +P364 - Take off contaminated clothing a +P378 - In case of fire: Use dry sand, dry +P233 - Store in a well-ventilated place. I +P235 - Store in a well-ventilated place. I - Store locked up - Dispose of contents/container to an ap	rsician if you fee irst aid instructio ical advice/atten dical advice/atten and wash it befo v chemical or alo Keep container Keep cool	ns on this label) tion ntion re reuse whol-resistant foam to extinguish tightly closed
2.3. Other hazards				
No additional information available 2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/informatio	on on in	aradiants		
3.1. Substance		greatents		
Substance type	· Mono	-constituent		
Name			0/	Classification (CHC HC)
Name Methyl 4,4,4-trifluorobutyrate		Product identifier (CAS No) 2365-82-4	% <= 100	Classification (GHS-US) Flam. Liq. 3, H226
(Main constituent)		(04010) 2000-02-4	~ 100	Skin Irrit. 2, H315 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				
I.1. Description of first aid measures				
First-aid measures general		se of accident or if you feel unwell, seek r e possible). Move the affected personnel		
First-aid measures after inhalation		ove person to fresh air and keep comforta	able for breathin	g. If not breathing, give artificial
	respir	ation. Get medical advice/attention.		
First-aid measures after skin contact	: Wash	ation. Get medical advice/attention. with plenty of soap and water. Get medi		tion.
First-aid measures after skin contact First-aid measures after eye contact	: Wash : Imme prese	ation. Get medical advice/attention. with plenty of soap and water. Get medi diately flush eyes thoroughly with water f ant and easy to do. Continue rinsing. Get	for at least 15 m medical advice/	tion. inutes. Remove contact lenses, if attention.
First-aid measures after skin contact	: Wash : Imme prese : Do No	ation. Get medical advice/attention. with plenty of soap and water. Get medi diately flush eyes thoroughly with water f	for at least 15 m medical advice/ by mouth to an	tion. inutes. Remove contact lenses, if attention.
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First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	: Wash : Imme prese : Do No mouth cts, both a : The n	ation. Get medical advice/attention. a with plenty of soap and water. Get medi- idiately flush eyes thoroughly with water f int and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything in out with water. Get medical advice/atten	for at least 15 m medical advice/ by mouth to an ntion.	tion. inutes. Remove contact lenses, if attention. unconscious person. Rinse
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First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and effe Symptoms/injuries 4.3. Indication of any immediate medica Freat symptomatically. SECTION 5: Firefighting measures	: Wash : Imme prese : Do No mouth cts, both : The n 2.2) a	ration. Get medical advice/attention. In with plenty of soap and water. Get medi adiately flush eyes thoroughly with water f int and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything in out with water. Get medical advice/atten acute and delayed most important known symptoms and effe- ind/or in section 11.	for at least 15 m medical advice/ by mouth to an ntion.	tion. inutes. Remove contact lenses, if attention. unconscious person. Rinse
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First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 1.2. Most important symptoms and effe Symptoms/injuries 1.3. Indication of any immediate medical Fireat symptomatically. SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the su Fire hazard Explosion hazard	 Wash Imme prese Do Ne mouth Cts, both a The n 2.2) a al attention Alcoh approximation Stance of contained and a secondary of the secondary	ration. Get medical advice/attention. a with plenty of soap and water. Get medi idiately flush eyes thoroughly with water f int and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything in out with water. Get medical advice/atten acute and delayed most important known symptoms and effer and/or in section 11. In and special treatment needed iol resistant foam. Carbon dioxide. Dry po- priate for surrounding fire. or mixture nal decomposition generates: Carbon oxiof of explosion if heated under confinement.	for at least 15 m medical advice/ by mouth to an ntion. ects are describe owder. Water sp ides. Hydrogen . Use water spra oor-air mixture.	tion. inutes. Remove contact lenses, if attention. unconscious person. Rinse ed in the labelling (see section ray. Use extinguishing media fluoride. ly or fog for cooling exposed sk of explosion.

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SECTION 6: Accidental release measure	Ires		
6.1. Personal precautions, protective equi			
	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.		
6.1.1. For non-emergency personnel			
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.		
6.2. Environmental precautions			
Avoid release to the environment. Notify authoritie	s if product enters sewers or public waters.		
6.3. Methods and material for containmen	t and cleaning up		
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 shovel spills into appropriate container for disposal. Ventilate area.		
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			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
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 fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
Hygiene 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			
	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Moisture sensitive. 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.

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SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 113 °C
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	: 156.1 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 Refractive index	: 1.345 (@ 25 °C)
	. 1.040 (@ 20 0)
SECTION 10: Stability and reactivi	ty
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and s	storage conditions.
10.3. Possibility of hazardous reactions	8
No additional information available	
10.4.Conditions to avoidKeep away from heat, sparks and flame.	
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidizing a	
10.6. Hazardous decomposition produc	
	nazardous decomposition products should not be produced. Hazardous decomposition products in case of
fire, see Section 5.	
SECTION 11: Toxicological inform	
11.1. Information on toxicological effect	its
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

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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

~ ~ ~	
SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No add	itional information available
12.5.	Other adverse effects
	itianal information available

No additional	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	
Transport document description	: UN3272 Esters, n.o.s., 3, III
UN-No.(DOT)	: UN3272
Proper Shipping Name (DOT)	· Esters nos

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

- : Esters, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : III Minor Danger
- : 203
- : 242

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DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
	MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3272
Proper Shipping Name (IMDG)	: ESTERS, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3272
Proper Shipping Name (IATA)	: Esters, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	
All components of this product are listed, or exc Substances Control Act (TSCA) inventory except	uded from listing, on the United States Environmental Protection Agency Toxic t for:
Methyl 4,4,4-trifluorobutyrate	CAS No 2365-82-4 100%
	chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 nents of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
15.2. International regulations	
ional international regulations	

CANADA

No additional information available

EU-Regulations No additional information available

National regulations No additional information available

15.3. US State regulations

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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

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA fire hazard NFPA reactivity	 given. 3 - Liquids and solids that can be ignited under almost all ambient conditions. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	· O Madarata Ularandi. Tanananan ang ini ang ini ang ang ang ang
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
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.