

Methyl 3,3,3-trifluoropropionate Safety Data Sheet 2123366 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/02/2016 Version: 1.0

I.1. Identification	
Product form	: Substance
Substance name	: Methyl 3,3,3-trifluoropropionate
CAS No	: 18830-44-9
Product code	: 2123-3-66
Formula	: C4H5F3O2
Other means of identification	: MFCD02262206
1.2. Relevant identified uses of the	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	afety 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	· (944) 522 4096 (25 Company Account 10060)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificat	tion
2.1. Classification of the substance	e or mixture
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye	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
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
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)	e irritation bry 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 bry irritation :
Eye Irrit. 2A H319 - Causes serious eye STOT SE 3 H335 - May cause respirato Full text of H-phrases: see section 16	e irritation bry 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 bry irritation : irritation : irritation : Warning : H226 - Flammable liquid and vapor H315 - Causes skin irritation H319 - Causes serious eye irritation

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	lenses, if present and easy to do. Co P312 - Call a POISON CENTER or of P321 - Specific treatment (see suppl P332+P313 - If skin irritation occurs: P337+P313 - If eye irritation persists P362+P364 - Take off contaminated P370+P378 - In case of fire: Use dry P403+P233 - Store in a well-ventilate P403+P235 - Store in a well-ventilate P405 - Store locked up P501 - Dispose of contents/contained	doctor/physician if you emental first aid instru Get medical advice/at : Get medical advice/at clothing and wash it b sand, dry chemical or ed place. Keep contair ed place. Keep cool	ctions on this label) tention ttention efore reuse alcohol-resistant foam to extinguish her tightly closed
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US))		
Not applicable			
SECTION 3: Composition/informat	tion on ingredients		
3.1. Substance	••		
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Methyl 3,3,3-trifluoropropionate (Main constituent)	(CAS No) 18830-44-9	<= 100	Flam. Liq. 3, H226 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			
4.1. Description of first aid measures			
	: In case of accident or if you feel unw where possible). Move the affected p		
First-aid measures general	: In case of accident or if you feel unw	personnel away from the comfortable for breat	ne contaminated area.
First-aid measures general	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep 	personnel away from the comfortable for breat tion.	ne contaminated area. hing. If not breathing, give artificial
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get medical advice/atten 	personnel away from the comfortable for breat tion. Get medical advice/at tith water for at least 15	ne contaminated area. hing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get medical advice/atten Wash with plenty of soap and water. Immediately flush eyes thoroughly with 	personnel away from the comfortable for breat tion. Get medical advice/at ith water for at least 15 sing. Get medical advi e anything by mouth to	ne contaminated area. hing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention.
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First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and ef	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get medical advice/atten Wash with plenty of soap and water. Immediately flush eyes thoroughly wi present and easy to do. Continue rin: Do NOT induce vomiting. Never give mouth out with water. Get medical adviced 	personnel away from the comfortable for breat tion. Get medical advice/at the water for at least 15 sing. Get medical advice anything by mouth to dvice/attention.	ne contaminated area. hing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention. an unconscious person. Rinse
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First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and ef Symptoms/injuries 4.3. Indication of any immediate medi Treat symptomatically.	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get medical advice/atten Wash with plenty of soap and water. Immediately flush eyes thoroughly wi present and easy to do. Continue rin: Do NOT induce vomiting. Never give mouth out with water. Get medical ad ffects, both acute and delayed The most important known symptoms 2.2) and/or in section 11. 	bersonnel away from the comfortable for breat tion. Get medical advice/at tith water for at least 18 sing. Get medical advice advice/attention. anything by mouth to dvice/attention.	ne contaminated area. thing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention. an unconscious person. Rinse
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and ef Symptoms/injuries 4.3. Indication of any immediate medi Treat symptomatically. SECTION 5: Firefighting measures	 In case of accident or if you feel unw where possible). Move the affected p Remove person to fresh air and keep respiration. Get medical advice/atten Wash with plenty of soap and water. Immediately flush eyes thoroughly wi present and easy to do. Continue rin: Do NOT induce vomiting. Never give mouth out with water. Get medical ad ffects, both acute and delayed The most important known symptoms 2.2) and/or in section 11. 	bersonnel away from the comfortable for breat tion. Get medical advice/at tith water for at least 18 sing. Get medical advice advice/attention. anything by mouth to dvice/attention.	ne contaminated area. thing. If not breathing, give artificial tention. 5 minutes. Remove contact lenses, if ce/attention. an unconscious person. Rinse
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SECTION 6: Accidental release mea	isures		
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: 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 authori	ities if product enters sewers or public waters.		
6.3. Methods and material for containm	ent 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			
Technical measures	: 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 chemical properties		
9.1. Information on basic physical and chemical 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	: 95 - 95.5 °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	: 142.08 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 toxicologica	effects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Sorious ava damaga/irritation	· Causas sociaus ava 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

SECTIO	N 12: Ecological information
12.1.	Toxicity
No additio	nal information available
12.2.	Persistence and degradability
No additio	nal information available
12.3.	Bioaccumulative potential
No additio	nal information available
12.4.	Mobility in soil
No additio	nal information available
12.5.	Other adverse effects
No additio	nal 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. 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, n.o.s. : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 Transport hazard class(es) (DOT) Hazard labels (DOT) : 3 - Flammable liquid

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) : 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, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquid: 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
DOT Packaging Exceptions (49 CFR 173.xxx)	150
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	
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	
JN-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	
JN-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	ded from listing, on the United States Environmental Protection Agency Toxic for:
Methyl 3,3,3-trifluoropropionate	CAS No 18830-44-9 100%
	hemical or chemicals in excess of the applicable de minimis concentration as specified in 40 ents of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986
15.2. International regulations	

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

Full text of H-phrases:

LOX		
	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 health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.
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	: 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.