

Methyl(2,2,2-trifluoroethyl)amine Safety Data Sheet 3131303 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/12/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Methyl(2,2,2-trifluoroethyl)amine
CAS No	: 2730-67-8
Product code	: 3131-3-03
Formula	: C3H6F3N
Synonyms	: (2,2,2-Trifluoroethyl)methylamine; 2,2,2-Trifluoro-N-methylethanamine; N-Methyl-2,2,2- trifluoroethanamine; N-Methyl-2,2,2-trifluoroethylamine
Other means of identification	: MFCD08445796
	stance 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	v data 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.co	<u>m</u>
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
Classification (GHS-US)	
Flam. Liq. 2H225 - Highly flammable liquidSkin Corr. 1BH314 - Causes severe skin buEye Dam. 1H318 - Causes serious eye daSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 16	ırns and eye damage amage
Skin Corr. 1B H314 - Causes severe skin bu Eye Dam. 1 H318 - Causes serious eye da STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16	ırns and eye damage amage
Skin Corr. 1BH314 - Causes severe skin buEye Dam. 1H318 - Causes serious eye daSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 162.2.Label elements	ırns and eye damage amage
Skin Corr. 1B H314 - Causes severe skin bu Eye Dam. 1 H318 - Causes serious eye da STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	ırns and eye damage amage
Skin Corr. 1BH314 - Causes severe skin buEye Dam. 1H318 - Causes serious eye daSTOT SE 3H335 - May cause respiratoryFull text of H-phrases: see section 162.2.Label elements	 irritation : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irrit<="" td=""></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:>
Skin Corr. 1B H314 - Causes severe skin bu Eye Dam. 1 H318 - Causes serious eye da STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	arms and eye damage amage irritation : : : : : : : : : : : : :
Skin Corr. 1B H314 - Causes severe skin bu Eye Dam. 1 H318 - Causes serious eye da STOT SE 3 H335 - May cause respiratory Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 irritation : irritation <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> : irritation <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irritation<="" li=""> <li: irri<="" td=""></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:></li:>

Methyl(2,2,2-trifluoroethyl)amine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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	P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to ex P403+P233 - Store in a well-ventilated place. Keep container tightly closed P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant		sian ons on this label) cohol-resistant foam to extinguish tightly closed		
2.3.	Other hazards				
No addit	ional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not appl	icable				
SECTI	ON 3: Composition/informatic	on on ir	ngredients		
3.1.	Substance				
Substan	ce type	: Mon	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
Methyl(2 (Main cor	2,2,2-trifluoroethyl)amine nstituent)		(CAS No) 2730-67-8	<= 100	Flam. Liq. 2, H225 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text	of H-phrases: see section 16			•	·
3.2.	Mixture				
Not appl	icable				
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general		se of accident or if you feel unwell, seek re possible). Move the affected personnel		
	measures after inhalation	resp	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
	measures after skin contact	med	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
	measures after eye contact	pres	 Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse 		
	measures after ingestion	mou	th out with water. Get immediate medical		
4.2.	Most important symptoms and effe		-	a ata ana ata a ath	a di ta da a la ba Mara da a a a dia a
-	ns/injuries	2.2)	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
	ns/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.			
4.3. Troot ou	Indication of any immediate medica	a attentio	on and special treatment needed		
	mptomatically.				
	ON 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media		hol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2.	Special hazards arising from the su				
Fire haza		: Thermal decomposition generates: Carbon oxides. Nitrogen oxides.			
Explosio	n hazard		of explosion if heated under confinement ainers. May form flammable/explosive va		ay or fog for cooling exposed
5.3.	Advice for firefighters				
-	ing instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			
Protectic	on during firefighting		r gas tight chemically protective clothing a aratus. For further information refer to sec		
12/08/201	6	EN (Er	ıglish US)	SDS ID: 3131303	2/7

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

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes,		
General measures .	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 authorities	if product enters sewers or public waters.	
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.	
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. Air sensitive. Hygroscopic. Keep contents under inert gas.	
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.	

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	d 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	: 47 °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	: 113.08 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		
Refractive index	: 1.31535 (@ 25 °C)	
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	storage conditions.	
10.3. Possibility of hazardous reaction	S	
No additional information available		
10.4. Conditions to avoid		
Keep away from heat, sparks and flame.		
10.5. Incompatible materials		

Acids. Strong oxidizing agents.

Hazardous decomposition products 10.6.

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 severe skin burns and eye damage.			
Serious eye damage/irritation	: Causes serious eye damage.			
Respiratory or skin sensitization	: Not classified			
12/08/2016	EN (English US)	SDS ID: 3131303	4/7	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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.	
Additional information	: Recycle the material as far as possible.	

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

Packing group (DOT)

DOT Symbols

: UN2734 Amines, liquid, corrosive, flammable, n.o.s., 8, II

: UN2734

- : Amines, liquid, corrosive, flammable, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



: II - Medium Danger

: 202

- : 243
- : G Identifies PSN requiring a technical name

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 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.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	
UN-No. (IMDG)	
Proper Shipping Name (IMDG)	: AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S.
Class (IMDG) Packing group (IMDG)	 8 - Corrosive substances II - substances presenting medium danger
Air transport	
UN-No. (IATA)	: 2734
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, flammable, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger
SECTION 15: Regulatory information	
15.1. US Federal regulations	

Methyl(2,2,2-trifluoroethyl)amine CAS No 2730-67-8 100%				
		Methyl(2,2,2-trifluoroethyl)amine		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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and 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

Eye Dam. 1		Serious eye damage/eye irritation Category 1	
	Flam. Liq. 2	Flammable liquids Category 2	
	Skin Corr. 1B	Skin corrosion/irritation Category 1B	
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
	H225	Highly flammable liquid and vapor	
	H314	Causes severe skin burns and eye damage	
	H318	Causes serious eye damage	
	H335	May cause respiratory irritation	
	fire hazard reactivity	 residual injury even though prompt medical attention was 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 I	II Rating		
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flamm	ability	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)	
Physic	al	: 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.