

Safety Data Sheet 4156312 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/13/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: N-Methoxy-N-methyldifluoroacetamide
CAS No	: 142492-01-1
Product code	: 4156-3-12
Formula	: C4H7F2NO2
Other means of identification	: MFCD06248152
1.2. Relevant identified uses of the su	ibstance 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 safe	ty 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.com	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	on
2.1. Classification of the substance or	r mixture
Flam. Liq. 4H227 - Combustible liqAcute Tox. 3 (Oral)H301 - Toxic if swallowSkin Irrit. 2H315 - Causes skin irri	ved
Acute Tox. 3 (Oral) H301 - Toxic if swallow	ved itation s eye irritation
Acute Tox. 3 (Oral)H301 - Toxic if swallowSkin Irrit. 2H315 - Causes skin irriEye Irrit. 2AH319 - Causes seriousSTOT SE 3H335 - May cause respFull text of H-phrases: see section 162.2.Label elements	ved itation s eye irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallow Skin Irrit. 2 H315 - Causes skin irri Eye Irrit. 2A H319 - Causes serious STOT SE 3 H335 - May cause resp Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	ved itation s eye irritation
Acute Tox. 3 (Oral)H301 - Toxic if swallowSkin Irrit. 2H315 - Causes skin irriEye Irrit. 2AH319 - Causes seriousSTOT SE 3H335 - May cause respFull text of H-phrases: see section 162.2.Label elements	ved itation s eye irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallow Skin Irrit. 2 H315 - Causes skin irri Eye Irrit. 2A H319 - Causes serious STOT SE 3 H335 - May cause resp Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	ved itation s eye irritation piratory irritation
Acute Tox. 3 (Oral) H301 - Toxic if swallow Skin Irrit. 2 H315 - Causes skin irri Eye Irrit. 2A H319 - Causes serious STOT SE 3 H335 - May cause resp Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	ved itation s eye irritation piratory irritation

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

P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguis 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				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US) Not applicable				
SECTION 3: Composition/information	on i	naradiants		
3.1. Substance		ngreatents		
Substance type	: Mor	no-constituent		
Name		Product identifier	%	Classification (GHS-US)
N-Methoxy-N-methyldifluoroacetamide (Main constituent)		(CAS No) 142492-01-1	<= 100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 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 First-aid measures general		ase of accident or if you feel unwell, s		
First-aid measures after inhalation	 where possible). Move the affected personnel away from the contaminated area. Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention. 			
First-aid measures after skin contact	: Was	sh with plenty of soap and water. Get	immediate medic	al advice/attention.
First-aid measures after eye contact	pres	nediately flush eyes thoroughly with w sent and easy to do. Continue rinsing.	Get immediate m	nedical advice/attention.
First-aid measures after ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. Most important symptoms and effect				
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
4.3. Indication of any immediate medical	attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media		· · · · · · · · · · · · · · · · · · ·		
Suitable extinguishing media	app	ohol resistant foam. Carbon dioxide. D ropriate for surrounding fire.	ory powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from the sub				
Fire hazard Explosion hazard	: Risl	rmal decomposition generates: Carbo of explosion if heated under confiner tainers.		•
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.			
Protection during firefighting	 Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". 			

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

SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
5.1.1. For non-emergency personnel	
mergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
.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".
mergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
.2. Environmental precautions	
void release to the environment. Notify autho	rities if product enters sewers or public waters.
.3. Methods and material for containn	nent and cleaning up
or containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
lethods 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".
.4. Reference to other sections	
lo additional information available	
ECTION 7: Handling and storage	
.1. Precautions for safe handling	
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.
lygiene 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.
.2. Conditions for safe storage, includ	ding any incompatibilities
echnical measures	: Comply with applicable regulations.
torage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
torage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/per	sonal protection
.1. Control parameters	
lo additional information available	
.2. Exposure controls	
ppropriate 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.
land protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
ye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
kin and body protection	: Wear suitable protective clothing.
espiratory 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
.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	· No data available

Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
11/13/2020	EN (English US)

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

рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	40 - 41 °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	:	139.1007 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 re	activity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handlin	ng and storage conditions. Strongly hygroscopic.
10.3. Possibility of hazardous re	actions
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flam	ie.
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxi	idizing agents.
10.6. Hazardous decomposition	products
Under normal conditions of storage an fire, see Section 5.	d use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological in	nformation
11.1. Information on toxicologic	al effects
Acute toxicity	: Oral: Toxic if swallowed.

Acute toxicity	
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

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

Aspirati	on 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	tional information available	
12.4.	Mobility in soil	
No add	itional information available	
12.5.	Other adverse effects	
No add	itional information available	

SECTION 13: Disposal consideration	15
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)	
Transport document description	: UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
UN-No.(DOT)	: UN2810
Proper Shipping Name (DOT)	: Toxic, liquids, organic, n.o.s.
Transport hazard class(es) (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Hazard labels (DOT)	: 6.1 - Poison
	6
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	 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 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). T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49	: 220 L

CFR 175.75)

Safety Data Sheet

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

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	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
	-

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:

N-Methoxy-N-methyldifluoroacetamide CAS No 142492-01-1 100%				
		N-Methoxy-N-methyldifluoroacetamide		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

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:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
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.