

2-Methoxyprop-1-ene Safety Data Sheet 2307101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/15/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 2-Methoxyprop-1-ene
CAS No	: 116-11-0
Product code	: 2307-1-01
Formula	: C4H8O
Synonyms	: Isopropenyl methyl ether
Other means of identification	: MFCD00014929
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 - <u>www.synquestlab</u>	
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)	
Acute Tox. 4 (Oral) H302 - Harmful if sw Skin Irrit. 2 H315 - Causes skin	irritation
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause re	vallowed interval interva
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	vallowed interval interva
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reFull text of H-phrases: see section 162.2.Label elements	vallowed interval interva
Acute Tox. 4 (Oral) H302 - Harmful if sw Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes seric STOT SE 3 H335 - May cause reference Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	vallowed irritation bus eye irritation espiratory irritation
Acute Tox. 4 (Oral) H302 - Harmful if sw Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes seric STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	vallowed irritation bus eye irritation espiratory irritation
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skinEye Irrit. 2AH319 - Causes sericSTOT SE 3H335 - May cause reFull text of H-phrases: see section 16	vallowed irritation bus eye irritation espiratory irritation
Acute Tox. 4 (Oral) H302 - Harmful if sw Skin Irrit. 2 H315 - Causes skin Eye Irrit. 2A H319 - Causes seric STOT SE 3 H335 - May cause response Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 vallowed irritation bus eye irritation espiratory irritation

2-Methoxyprop-1-ene Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	lenses, if present and easy to do. C P312 - Call a POISON CENTER of P321 - Specific treatment (see sup P330 - Rinse mouth P332+P313 - If skin irritation occur P337+P313 - If eye irritation persis P362+P364 - Take off contaminate	air): Take off immediatel erson to fresh air and ke se cautiously with water f Continue rinsing r doctor/physician if you f plemental first aid instruct s: Get medical advice/att ts: Get medical advice/att ed clothing and wash it be ry sand, dry chemical or ry sand, dry chemical on ated place. Keep cool	y all contaminated clothing. Rinse ep comfortable for breathing for several minutes. Remove contact feel unwell ctions on this label) tention ttention efore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards Other hazards not contributing to the	: May form explosive peroxides.		
classification			
2.4. Unknown acute toxicity (GHS U	JS)		
Not applicable			
SECTION 3: Composition/inform	ation on ingredients		
3.1. Substance	: Mono-constituent		
Substance type			
Name 2-Methoxyprop-1-ene	(CAS No) 116-11-0	% <= 100	Classification (GHS-US) Flam. Liq. 1, H224
(Main constituent)	(0.43 10) 110-11-0	<= 100	Acute Tox. 4 (Oral), H302 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 measure			
First-aid measures general	: In case of accident or if you feel un where possible). Move the affected		
First-aid measures after inhalation	: Remove person to fresh air and ke respiration. Get immediate medical	ep comfortable for breath	
First-aid measures after skin contact	: Wash with plenty of soap and wate	er. Get immediate medica	al advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly present and easy to do. Continue r	insing. Get immediate m	edical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never giv mouth out with water. Get immedia		
	effects, both acute and delayed		
Symptoms/injuries	: The most important known sympto 2.2) and/or in section 11.	ms and effects are descr	ibed in the labelling (see section
	edical attention and special treatment nee	eded	
Freat symptomatically.			
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dio appropriate for surrounding fire.	xide. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from th	e substance or mixture		
Fire hazard Explosion hazard	Thermal decomposition generates: Risk of explosion if heated under c containers. New form flormable(s)	onfinement. Use water s	
	containers. May form flammable/ex		5.
12/06/2016	EN (Epaliab US)		

2-Methoxyprop-1-ene Safety Data Sheet

5.3. Advice for fi	/ Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefig	
SECTION 6: Accie	ental release measures
6.1. Personal pre	autions, 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-eme	gency personnel
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emerger	cy 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. Environmen	al precautions
Avoid release to the en	ronment. 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.

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, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. 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. Light sensitive.

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. should be available in the immediate vicinity	Emergency eye wash fountains and safety sh	owers
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand	Protection.	
Eye protection	: Chemical goggles or safety glasses. Face s	hield. 29 CFR 1910.133: Eye and Face Protect	ction.
Skin and body protection	: Wear suitable protective clothing.		
12/06/2016	EN (English US)	SDS ID: 2307101	3/7

Safety Data Sheet

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

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 p	hysical and chemical properties
Dhusiaal state	

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	: 34 - 36 °C
Flash point	: -29 °C
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	: 8.28 psig (@ 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.753 g/ml (@ 25 °C)
Molecular mass	: 72.11 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	: 1.382 (@ 20 °C)

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. Stabilized product: Potassium carbonate.

10.3.	Describility of honorday, prosting
10.5.	Possibility of hazardous reactions

May polymerize.

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Acids. Oxidizing 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

Safety Data Sheet

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

Acute toxicity	: Oral: Harmful if swallowed.
2-Methoxyprop-1-ene (116-11-0)	
LD50 oral rat	1870 µl/kg
ATE US (oral)	500.000 mg/kg body weight
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
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	

 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 considerat	ions
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	on

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)

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

: UN1993 Flammable liquids, n.o.s., 3, I

- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid



- : I Great Danger
- : 201
- : 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)	 T11 - 6 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
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	: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.
Other information	: No supplementary information available.
TDG No additional information available	
Transport by sea	
UN-No. (IMDG)	: 1993
Proper Shipping Name (IMDG)	: FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: I - substances presenting high danger
Air transport	
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
	: I - Great Danger

15.1. US Federal regulations

2-Methoxyprop-1-ene (116-11-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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.

Class B Division 2 - Flammable Liquid

15.2. International regulations

CANADA			
2-Methoxyprop-1-ene (116-11-0)			
Listed on the Canadian NDSL (Non-Domestic Substances List)			

EU-Regulations

No additional information available

National regulations

WHMIS Classification

2-Methoxyprop-1-ene (116-11-0)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Full text of	H-phrases:
--------------	------------

	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4	
	Eye Irrit. 2A		Serious eye damage/eye irritation Category 2A	
	Flam. Liq. 1		Flammable liquids Category 1	
	Skin Irrit. 2		Skin corrosion/irritation Category 2	
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3	
	H224		Extremely flammable liquid and vapor	
	H302		Harmful if swallowed	
	H315		Causes skin irritation	
	H319		Causes serious eye irritation	
	H335		May cause respiratory irritation	
NFPA health hazard NFPA fire hazard NFPA reactivity		 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 		
HMIS I	I Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur		
Flammability		: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)		
			zard - Materials that are normally stable, even under fire conditions, and will NOT ter, 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.