

Synerzine 2-Octynoic acid, methyl ester Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/06/2015 Version: 1.0

SECTION 1: Identific	ation	
1.1. Identification		
Product form		: Substance
Substance name		: 2-Octynoic acid, methyl ester
Chemical name		: Methyl 2-octynoate
CAS-No.		: 111-12-6
Product code		: (US) W1430
Formula		: C9H14O2
Synonyms		: Methyl heptine carbonate / Methyl 1-heptyne-1-carboxylate / Methyl 2-octynoate / Methyl oct-2- ynoate / Oct-2-ynoate, methyl / METHYL 2-OCTYNOATE
1.2. Recommended u	use and restriction	ns on use
No additional information ava	ailable	
1.3. Supplier		
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - U T 404-524-6744 - F 404-577-2 info@synerzine.com - www.sy	1651	
1.4. Emergency tele	phone number	
Emergency number		: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s	;) identificatior	
2.1. Classification o	f the substance or	mixture
GHS-US classification		
Flammable liquids Category 4	H227	Combustible liquid
Acute toxicity (oral)	H302	Harmful if swallowed
Category 4 Skin corrosion/irritation Category 2	H315	Causes skin irritation
Full text of H statements : see	section 16	
2.2 CUC Label alam	anta taskatas an	
	ents, including pro	ecautionary statements
GHS-US labeling		
Hazard pictograms (GHS-US)		
Signal word (GHS-US)		: Warning
Hazard statements (GHS-US)		: H227 - Combustible liquid H302 - Harmful if swallowed H315 - Causes skin irritation
Precautionary statements (GH	IS-US)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P312 - If swallowed: Call a doctor, a POISON CENTER if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to extinguish.
00/00/0010		

Safety Data Sheet

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

P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to an approved waste disposal plant

	PS01 - Dispose of content	s/container to an approve	a waste dispo	sal plant
2.3. Other hazards which do not i	result in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS	US)			
Not applicable				
SECTION 3: Composition/Inform	nation on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS-US classification
2-Octynoic acid, methyl ester (Main constituent)		(CAS-No.) 111-12-6	98 - 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315
Full text of hazard classes and H-statements : s	see section 16	I		5Kiii ii 11. 2, 11313
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid meas	ures			
First-aid measures general	: Call a poison center/doct	or/physician if you feel unv	well.	
First-aid measures after inhalation	: Remove person to fresh a	ir and keep comfortable fo	r breathing.	
First-aid measures after skin contact	: Wash skin with plenty of medical advice/attention		ted clothing. I	f skin irritation occurs: Get
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Rinse mouth. Call a poison	n center/doctor/physician	if you feel un	well.
4.2. Most important symptoms ar	nd effects (acute and delay	e d)		
Symptoms/effects after skin contact	: Irritation.			
4.3. Immediate medical attention	and special treatment, if	necessary		
Treat symptomatically.				
SECTION 5: Fire-fighting measu	res			
5.1. Suitable (and unsuitable) ext	tinguishing media			
Suitable extinguishing media	: Water spray. Dry powder	. Foam. Carbon dioxide.		
5.2. Specific hazards arising from	the chemical			
Fire hazard	: Combustible liquid.			
Reactivity	: The product is non-reacti	ve under normal condition	ns of use, stora	ge and transport.
5.3. Special protective equipment	t and precautions for fire-f	ighters		
Protection during firefighting		tion without suitable prote	ective equipm	ent. Self-contained breathing
SECTION 6: Accidental release	measures			
6.1. Personal precautions, protec	tive equipment and emerg	ency procedures		
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. No eyes.	o open flames, no sparks, a	nd no smokin	g. Avoid contact with skin and
6.1.2. For emergency responders				
Protective equipment		tion without suitable prote ontrols/personal protection		ent. For further information refer
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for co	ntainment <u>and cleaning up</u>			
Methods for cleaning up		bsorbent material. Notify a	authorities if p	product enters sewers or public

Safety Data Sheet

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

cording to Federal Register / Vol. //, No. 58 / M	
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sectio	
For further information refer to section 13	
SECTION 7: Handling and sto	rage
7.1. Precautions for safe hand	ling
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storag	ge, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
8.2. Appropriate engineering of Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
•	isures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Skin and body protection: Wear suitable protective clothing	

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemica	l properties
9.1. Information on basic physical a	and chemical properties
Physical state	: Liquid
Appearance	: A colorless to pale yellow liquid.
Color	: colorless to pale yellow
Odor	: violet odor
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 217 - 220 °C
Flash point	: 195 °F TCC
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available

Safety Data Sheet

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

Specific gravity / density	: $0.91 - 0.93 \text{ g/cm}^3$
Molecular mass	: 154.21 g/mol
Solubility	: Soluble in alcohols. insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

2-Octynoic acid, methyl ester (111-12-6)	
LD50 oral rat	1530 mg/kg
ATE US (oral)	1530 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after skin contact	: Irritation.

SECTION 12: Ecological information 12.1. Toxicity Evolution The modest instance is a second s

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, M	arch 26, 2012 / Rules and Regulations
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 consideration	ons
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport informatio	n
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: NA1993 Combustible liquid, n.o.s., 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
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	: D - Proper shipping name for domestic use only, or to and from Canada, 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, 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). T1 - 1.5 178.274(d)(2) Normal 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
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.
Transportation of Dangerous Goods	

Transport by sea

Air transport

Safety Data Sheet

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

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Octynoic acid, methyl ester (111-12-6)

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

15.2. International regulations

CANADA

2-Octynoic acid, methyl ester (111-12-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2-Octynoic acid, methyl ester (111-12-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

2-Octynoic acid, methyl ester (111-12-6) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory 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) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Full text of H-nhrases

No additional information available

SECTION 16: Other information

H227	Combustible liquid
H302	Harmful if swallowed
H315	Causes skin irritation
NFPA health hazard	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
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.
Personal protection	: C
	C - Safety glasses, Gloves, Synthetic apron

Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product