

## 3,6-Dimethyl-4-octyn-3,6-diol

Safety Data Sheet 2504103 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/24/2020 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 3,6-Dimethyl-4-octyn-3,6-diol	
CAS No	: 78-66-0	
Product code	: 2504-1-03	
Formula	: C10H18O2	
Other means of identification	: MFCD00004480	
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	stance or mixture and uses advised aga	linst
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the safety	data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - www.synquestlabs.com	<u>ım</u>	
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Accou	unt 10069)
SECTION 2: Hazard(s) identification		
.1. Classification of the substance or	nixture	
Classification (GHS-US)		
Eye Irrit. 2A     H319 - Causes serious       STOT SE 3     H335 - May cause respi       Full text of H-phrases: see section 16       2.2.     Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	GHS07	
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	: H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation	n
Precautionary statements (GHS-US)	P301+P312 - If swallowed: Call a PO P302+P352 - If on skin: Wash with ple P304+P340 - If inhaled: Remove pers P305+P351+P338 - If in eyes: Rinse lenses, if present and easy to do. Cor P312 - Call a POISON CENTER or do	ndling en using this product -ventilated area tive clothing/eye protection/face protection ISON CENTER or doctor/ physician if you feel unwell enty of soap and water son to fresh air and keep comfortable for breathing cautiously with water for several minutes. Remove contact tinue rinsing poctor/physician if you feel unwell emental first aid instructions on this label) Get medical advice/attention

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	P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed 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				
<b>SECTION 3: Composition/information</b>	on on in	gredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
3,6-Dimethyl-4-octyn-3,6-diol (Main constituent)		(CAS No) 78-66-0<= 100Acute 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 measures				
First-aid measures general		: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation	: 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	: Wash with plenty of soap and water. Get immediate medical advice/attention.			
First-aid measures after eye contact		<ul> <li>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.</li> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse</li> </ul>		
First-aid measures after ingestion		OT induce vomiting. Never give anything h out with water. Get immediate medical		
4.2. Most important symptoms and effects, both acute and delayed				
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 attention and special treatment needed				
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media		nol 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	ubstance	or mixture		
Fire hazard	: Thermal decomposition generates: Carbon oxides.			
5.3. Advice for firefighters				
Firefighting instructions				
Protection during firefighting				
<b>SECTION 6: Accidental release mea</b>	asures			
6.1. Personal precautions, protective e	quipment	and emergency procedures		
General measures		uate unnecessary personnel. Ensure ade	equate air ventil	ation. Do not breathe dust.
1.1.         For non-emergency personnel           mergency procedures         : Only qualified personnel equipped with suitable protective equipment may intervene.				

6.1.2.

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6.2. Environmental precautions	2. Environmental precautions			
Avoid release to the environment. Notify authorities if product enters sewers or public waters.				
6.3. Methods and material for containment	it and cleaning up			
For containment	: Stop leak if safe to do so.			
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.			
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				
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 dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.			
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	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 area	: Store in dry, cool, well-ventilated area.			
SECTION 8: Exposure controls/perso	nal 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.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 53 - 54 °C
Freezing point	: No data available
Boiling point	: 119 - 122 °C (@ 10 mm Hg)
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

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Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Molecular mass	:	170.2487 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

	SE	CT	10N <sup>-</sup>	10: S	Stabilit	v and	reactivity	
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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

Alkali metals. Finely divided metals (Al, Mg, Zn). Strong acids. Strong bases. Strong 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

Acute toxicity

#### : Oral: Harmful if swallowed.

3,6-Dimethyl-4-octyn-3,6-diol (78-66-0)	
LD50 oral rat	1400 mg/kg
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

SECTIC	<b>N 12: Ecological information</b>				
12.1.	Toxicity				
No additio	onal information available				
12.2.	Persistence and degradability				
No additio	onal information available				
12.3.	Bioaccumulative potential				
No additional information available					
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#### 12.4. Mobility in soil

### No additional information available

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions				
13.1. Waste treatment methods					
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.				
Naste disposal recommendations : Dispose of contents/container in accordance with licensed collector's sorting instructions.					
dditional information : Recycle the material as far as possible.					
<b>SECTION 14: Transport informat</b>	on				
Department of Transportation (DOT)					
In accordance with DOT					
Not regulated for transport					
TDG					
No additional information available					
Transport by sea					
No additional information available					
Air transport					
No additional information available					
<b>SECTION 15: Regulatory informa</b>	tion				
15.1. US Federal regulations					
All components of this product are listed, of Substances Control Act (TSCA) inventory	r excluded from listing, on the United States Environmental Protection Agency Toxic except for:				
3,6-Dimethyl-4-octyn-3,6-diol CAS No 78-66-0 100%					
	toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 quirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986				
15.2. International regulations					
CANADA					

**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**

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Full text of H-	phrases:	
Acute	e Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye I	Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin	Irrit. 2	Skin corrosion/irritation Category 2
STO	T SE 3	Specific target organ toxicity (single exposure) Category 3
H302	2	Harmful if swallowed
H315	5	Causes skin irritation
H319	9	Causes serious eye irritation
H335	5	May cause respiratory irritation
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       : 1 - Must be preheated before ignition can occur.         NFPA reactivity       : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.		le residual injury unless prompt n. efore ignition can occur. n under fire exposure conditions,
HMIS III Ratin	ng	
Health : 3 Serious Hazard - Major injury like given		ajor injury likely unless prompt action is taken and medical treatment is
Flammability	Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Include: solids and semi solids having a flash point above 200 F. (Class IIIB)	
Physical       : 0 Minimal Hazard - Materials that are normally stable, even under fire condition react with water, polymerize, decompose, condense, or self-react. Non-Explosive		

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.