# Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-



synerzine trimethyl-Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0 Date of issue: 06/16/2015

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl-
CAS-No.	: 18368-91-7
Product code	: (US) W0586
Formula	: C12H22O
Synonyms	: 2-Ethyl-1,3,3-trimethyl-2-norbornanol / 2-Ethyl-1,3,3-trimethylbicyclo[2.2.1]heptan-2-ol / Norbornan-2-ol, 2-ethyl-1,3,3-trimethyl- / 2-Norbornanol, 2-ethyl-1,3,3-trimethyl- / 2- Ethylfenchol / Ethyl fenchol
1.2. Recommended use and restric	tions on use
No additional information available	
1.3. Supplier	
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 <u>info@synerzine.com</u> - <u>www.synerzine.com</u>	
1.4. Emergency telephone number	
Emergency number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) identificat 2.1. Classification of the substance	
GHS-US classification	
Flammable liquids Category H227 4 Full text of H statements : see section 16	Combustible liquid
The text of it statements i see section 10	
2.2. GHS Label elements, including	precautionary statements
GHS-US labeling	
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H227 - Combustible liquid
<ul> <li>Precautionary statements (GHS-US)</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, heat, hot surfaces, open flames, sparks</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry sand to extinguish.</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool.</li> <li>P501 - Dispose of contents/container to an approved waste disposal plant</li> </ul>	
2.3. Other hazards which do not re	esult in classification
No additional information available	
2.4. Unknown acute toxicity (GHS	US)
Not applicable	
SECTION 3: Composition/Inform	ation on ingredients
3.1. Substances	
Name	Product identifier % GHS-US classification

Name	Product identifier	%	GHS-US classification
Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (Main constituent)	(CAS-No.) 18368-91-7	97 - 100	Flam. Liq. 4, H227

Safety Data Sheet

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

Full text of hazard classes and H-statements : see se	ction 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and end No additional information available	ffects (acute and delayed)
4.3. Immediate medical attention and Treat symptomatically.	special treatment, if necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) exting	
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-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and	d precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective	equipment and emergency procedures
	equipment and emergency procedures
	equipment and emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.1. For non-emergency personnel Emergency procedures	
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Safety Data Sheet

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

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.

: Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Appearance	: A clear, colorless liquid.
Color	: colorless
Odor	: Earthy sharp camphoraceous
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 232 °C
Flash point	: 190 °F closed cup
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
Specific gravity / density	: 0.956 g/cm <sup>3</sup> at 25 °C
Molecular mass	: 182.3 g/mol
Solubility	: No data available
Log Pow	: 3.4
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

Safety Data Sheet

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

9.2. Other information			
No additional information available			
SECTION 10: Stability and re	eactivity		
LO.1. Reactivity			
The product is non-reactive under norma	l conditions of use, storage and transport.		
10.2. Chemical stability	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 in	nformation		
11.1. Information on toxicolog	ical effects		
Acute toxicity	: Not classified		
Skin corrosion/irritation	: Not classified		
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

SECTI	SECTION 12: Ecological information		
12.1.	Toxicity		
Ecology	- general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	

## No additional information available 12.3. Bioaccumulative potential Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (18368-91-7) Log Pow 3.4 12.4. Mobility in soil

No additional information available

12.2. Persistence and degradability

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
06/22/2018	EN (English LIS)	4/6

# Safety Data Sheet

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

SECTION 14: Transport informatio	n
<b>Department of Transportation (DOT)</b> In accordance with DOT	
In accordance with DOT Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols DOT Special Provisions (49 CFR 172.102)	<ul> <li>NA1993 Combustible liquid, n.o.s., 3, III</li> <li>NA1993</li> <li>Combustible liquid, n.o.s.</li> <li>3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</li> <li>III - Minor Danger</li> <li>203</li> <li>241</li> <li>D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 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). T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	<ul> <li>T4 - 1.5 178.274(d)(2) Normal</li></ul>
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	
Transport document description (IMDG)	: UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
UN-No. (IMDG) Proper Shipping Name (IMDG)	: 1993 : FLAMMABLE LIQUID, N.O.S.
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Air transport	
Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s., 3, III
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory informati	on
15.1. US Federal regulations	

Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (18368-91-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag       P - P - indicates a commenced Premanufacture Notice (PMN) substance.		

Safety Data Sheet

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

## 15.2. International regulations CANADA

Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (18368-91-7) Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (18368-91-7)

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

### National regulations

Bicyclo[2.2.1]heptan-2-ol, 2-ethyl-1,3,3-trimethyl- (18368-91-7)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

- Listed on INSQ (Mexican National Inventory of Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

### **SECTION 16: Other information**

#### Full text of H-phrases:

H227	Combustible liquid
NFPA health hazard	: 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
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	: 0 Minimal Hazard - No significant risk to health
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	: B
	B - Safety glasses, Gloves

#### 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