

synerzine<sup>™</sup> Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/17/2015 Version: 1.0

#### **SECTION 1: Identification** 1.1. Identification Product form : Substance Substance name Camphene ÷ CAS-No. : 79-92-5 Product code : (US) W0331 : C10H16 Formula Synonyms : Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-1.2. Recommended use and restrictions 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 info@synerzine.com - www.synerzine.com

#### 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) identification

# 2.1. Classification of the substance or mixture

## **GHS-US** classification

Flammable solids Category 2	H228	Flammable solid
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Hazardous to the aquatic environment - Acute Hazard Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 1	H410	Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including	orecautionary statements	
GHS-US labeling		
Hazard pictograms (GHS-US)		
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	<ul> <li>H228 - Flammable solid</li> <li>H319 - Causes serious eye irritation</li> <li>H400 - Very toxic to aquatic life</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>	
Precautionary statements (GHS-US)	<ul> <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>P240 - Ground/Bond container and receiving equipment</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish.</li> </ul>	
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P391 - Collect spillage. P501 - Dispose of contents/container to an approved waste disposal plant 2.3. Other hazards which do not result in classification No additional information available Unknown acute toxicity (GHS US) 2.4. Not applicable **SECTION 3: Composition/Information on ingredients** Substances 3.1. Name **Product identifier** % **GHS-US** classification Camphene (CAS-No.) 79-92-5 95 - 100 Flam. Sol. 2, H228 Eye Irrit. 2A, H319 (Main constituent) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Full text of hazard classes and H-statements : see section 16 3.2. Mixtures Not applicable SECTION 4: First-aid measures 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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. First-aid measures after eve contact Continue rinsing. If eye irritation persists: Get medical advice/attention. First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell. Most important symptoms and effects (acute and delayed) 4.2. : Eye irritation. Symptoms/effects after eve contact 4.3. Immediate medical attention and special treatment, if necessary Treat symptomatically. SECTION 5: Fire-fighting measures Suitable (and unsuitable) extinguishing media 5.1. Suitable extinguishing media : Water spray. Dry powder. Foam. Specific hazards arising from the chemical 5.2. Fire hazard : Flammable solid. Reactivity : Flammable solid. Special protective equipment and precautions for fire-fighters 5.3. Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. 6.1.2. 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". Environmental precautions 6.2. Avoid release to the environment. 6.3. Methods and material for containment and cleaning up For containment : Collect spillage.

Methods for cleaning up

: Mechanically recover the product. Notify authorities if product enters sewers or public waters.

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Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other secti	ons
For further information refer to section 1	3.
SECTION 7: Handling and st	orage
7.1. Precautions for safe han	dling
Precautions for safe handling	<ul> <li>Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Avoid contact with skin and eyes. Wear personal protective equipment.</li> </ul>
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe stor	age, including any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep cool. Protect from sunlight. Keep away from ignition sources. Store in a well-ventilated place.

# 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

: Avoid release to the environment.

: Ensure good ventilation of the work station.

## 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
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Physical state	: Solid
Appearance	: Colorless solid.
Color	: colorless
Odor	: woody herbal
Odor threshold	: No data available
pH	: No data available
Melting point	: 45 - 46 °C
Freezing point	: Not applicable
Boiling point	: 159 - 160 °C
Flash point	: 95 °F TCC
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable solid.
Vapor pressure	: 40 hPa (at 62.1 °C)
Relative vapor density at 20 °C	: No data available

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Relative density	: Not applicable
Specific gravity / density	: 0.87 g/cm <sup>3</sup> (at 20 °C)
Molecular mass	: 136.23 g/mol
Solubility	: Water: 4.2 mg/l (at 20 °C)
Log Pow	: No data available
Auto-ignition temperature	: >255 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

## 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

10.1. Reactivity

#### Flammable solid.

#### 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
Camphene (79-92-5)	
LD50 oral rat	> 5 g/kg
LD50 dermal rabbit	> 2500 mg/kg
Skin corrosion/irritation	: Not classified
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	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after eye contact	: Eye irritation.

# SECTION 12: Ecological information 12.1. Toxicity Ecology - general : Very toxic to aquatic life with long lasting effects.

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Camphene (79-92-5)	
LC50 fish 1	0.72 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through])
EC50 Daphnia 1	22 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	150 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
12.2. Persistence and degradability	
No additional information available	

12.3. Bioaccumulative potential	
Camphene (79-92-5)	
BCF fish 1	432 - 1290
2.4. Mobility in soil	

No additional information available

12.5. Other adverse effects

No additional information available

13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	ation
Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1325 Flammable solids, organic, n.o.s., 4.1, II
UN-No.(DOT)	: UN1325
Proper Shipping Name (DOT)	: Flammable solids, organic, n.o.s.
Class (DOT)	: 4.1 - Class 4.1 - Flammable Solid 49 CFR 173.124
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 4.1 - Flammable solid
	FLAMAALE SOLD
Dangerous for the environment	: Yes
Marine pollutant	: Yes

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

- : 212 : 240
- : G Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)	<ul> <li>A1 - Single packaging are not permitted on passenger aircraft.</li> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.</li> <li>IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.</li> <li>T3 - 2.65 178.274(d)(2) Normal 178.275(d)(2)</li> <li>TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.</li> </ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 151
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 50 kg
DOT Vessel Stowage Location	: B - (i) 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S., 4.1, II
UN-No. (IMDG)	: 1325
Proper Shipping Name (IMDG)	: FLAMMABLE SOLID, ORGANIC, N.O.S.
Class (IMDG)	: 4.1 - Flammable solids, self-reactive substances and solid desensitized explosives
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG) Marine pollutant	: 1 kg : Yes
Air transport	
Transport document description (IATA)	: UN 1325 Flammable solid, organic, n.o.s., 4.1, II
UN-No. (IATA)	: 1325
Proper Shipping Name (IATA)	: Flammable solid, organic, n.o.s.
Class (IATA)	: 4.1 - Flammable solids
Packing group (IATA)	: II - Medium Danger
SECTION 15: Regulatory informati	on

# SECTION 15: Regulatory information

# 15.1. US Federal regulations Camphene (79-92-5)

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

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## 15.2. International regulations

#### CANADA

#### Camphene (79-92-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

#### Camphene (79-92-5)

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

#### National regulations

## Camphene (79-92-5)

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 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:

Full text of H-pill ases:	
H228	Flammable solid
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
NFPA health hazard	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	<ul> <li>3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.</li> </ul>
NFPA reactivity	: 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
Physical	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable o detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion
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