

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

SECTION 1: Identific	ation	
1.1. Identification		
Product form		: Substance
Substance name		: 4-Carvomenthenol
Chemical name		: 1-Isopropyl-4-methyl-3-cyclohexen-1-ol
CAS-No.		: 562-74-3
Product code		: (US) W0334
Formula		: C10H180
Synonyms		: 4-Carvomenthenol / Cyclohex-3-en-1-ol, 4-methyl-1-(1-methylethyl)- / para-Menth-1-en-4-ol / p- Menth-1-en-4-ol / Terpinen-4-ol / 4-Terpinenol / 1-p-Menthen-4-ol / 4-TERPINEOL / Terpinenol- 4 / 4-Methyl-1-(1-methylethyl)-3-cyclohexen-1-ol
1.2. Recommended	use and restrict	ions on use
Use of the substance/mixture		: Flavor and/or Fragrance
1.3. Supplier		
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - U T 404-524-6744 - F 404-577- <u>info@synerzine.com</u> - <u>www.s</u>	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) identificati	on
-	f the substance	
GHS-US classification		
Flammable liquids Category 4	H227	Combustible liquid
Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Skin corrosion/irritation	H315	Causes skin irritation

Serious eye damage/eye H319 Causes serious eye irritation irritation Category 2A Specific target organ toxicity H335 May cause respiratory irritation

Full text of H statements : see section 16

GHS Label elements, including precautionary statements 2.2.

GHS-US labeling

Category 2

Hazard pictograms (GHS-US)

(single exposure) Category 3

Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	 H227 - Combustible liquid H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation 	
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources smoking, heat, open flames, hot surfaces, sparks P261 - Avoid breathing fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. 	3. No
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- 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

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

- lenses, if present and easy to do. Continue rinsing
- P312 Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

P501 - Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification 2.3.

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

Substance type

SECTION 3: Composition/Information on ingredients

Substances 3.1.

: Mono-constituent

Name	Product identifier	%	GHS-US classification
4-Carvomenthenol (Main constituent)	(CAS-No.) 562-74-3	95 - 100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid mea	isures
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms	and effects (acute and delayed)
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention	on and special treatment, if necessary
Treat symptomatically.	
SECTION E. Fire fighting meas	

5.1. Suitable (and unsuitable) extinguishing media		
5.2. Specific hazards arising from the o	chemical	
Fire hazard :	Combustible liquid.	
Reactivity :	The product is non-reactive under normal conditions of use, storage and transport.	

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	and 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 m	easures
6.1. Personal precautions, protecti	ive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. 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".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. 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 storage, in	
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
SECTION 8: Exposure controls/pe	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering contr	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measure	s/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 r	respiratory equipment

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SECTION 9: Physical and chemica	
9.1. Information on basic physical	
Physical state	: Liquid
Appearance	: Colorless to pale yellow clear liquid.
Color	: colorless to pale yellow
Odor	: woody earthy spicy
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 211 - 213 °C
Flash point	: 174 °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
Specific gravity / density	: 0.918 - 0.938 g/ml
Molecular mass	: 154.25 g/mol
Solubility	: slightly soluble in water. soluble in alcohols.
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	
SECTION 10: Stability and reactive	vity
10.1. Reactivity	
The product is non-reactive under normal condi	tions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reacti	ions
No dangerous reactions known under normal co	anditions 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 proc	
	ardous decomposition products should not be produced.
SECTION 11: Toxicological inform	
11.1. Information on toxicological e	
Acute toxicity	: Not classified
4-Carvomenthenol (562-74-3) LD50 oral rat	1300 mg/kg
Booonanat	1000 mb/ mb

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4-Carvomenthenol (562-74-3)	
LD50 dermal rabbit	> 3 g/kg
ATE US (oral)	1300 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
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.

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.	
12.2. Persistence and degradability		

No additional information available

CECTION 43

12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	2.4. Mobility in soil		
No addit	ional information available		
12.5.	Other adverse effects		
No addit	ional 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.	
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	

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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, 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
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	
Transport document description (IMDG)	: UN 1987 ALCOHOLS, N.O.S., 3, III
UN-No. (IMDG)	: 1987
Proper Shipping Name (IMDG)	: ALCOHOLS, 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 1987 Alcohols, n.o.s., 3, III
UN-No. (IATA)	: 1987
Proper Shipping Name (IATA)	: Alcohols, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

15.1. US Federal regulations

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4-Carvomenthenol (562-74-3)
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Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations		
CANADA		

4-Carvomenthenol (562-74-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

4-Carvomenthenol (562-74-3)

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

National regulations

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4-Carvomenthenol (562-74-3)

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 Japanese ISHL (Industrial Safety and Health La 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		
	H302	Harmful if swallowed		
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	H335	May cause respiratory 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.		
Haza	rd Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur		
Flam	mability	 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) 		
Phys	ical	: 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.		
Pers	onal 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