

# Cyclohexanol, 5-methyl-2-(1-methylethyl)-, synerzine<sup>[1S-(1.alpha.,2.alpha.,5.beta.)]-</sup>

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/29/2015 Version: 1.0

<b>SECTION 1: Identification</b>	
1.1. Identification	
Product form	: Substance
Substance name	: Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]-
CAS-No.	: 2216-52-6
Product code	: (US) W1313
Formula	: C10H200
Synonyms	: Cyclohexanol, 5-methyl-2-(1-methylethyl)-, (1S,2S,5R)- / Cyclohexanol, 5-methyl-2-(1- methylethyl)-, [1-(1.alpha.,2.alpha.,5.beta.)]- / D-Neomenthol / (+)-Neomenthol / Cyclohexanol, 5- methyl-2-(1-methylethyl)-,[1S-(1.alpha.,2.alpha.,5.beta.)]-

#### Recommended use and restrictions on use 1.2.

. . . . .

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

CECTION 2. Horowd/a) ida

Emergency number

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

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

SECTION 2: Hazard(s) identification		
2.1. Classification o	f the substan	ce or mixture
<b>GHS-US</b> classification		
Flammable liquids Category 4	H227	Combustible liquid
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
Full text of H statements : see	section 16	
	and a traditional to	
2.2. GHS Label eleme GHS-US labeling	ents, includir	ng precautionary statements
U U		
Hazard pictograms (GHS-US)		
Signal word (GHS-US)		: Danger
Hazard statements (GHS-US)		: H227 - Combustible liquid H315 - Causes skin irritation

H318 - Causes serious eye damage H335 - May cause respiratory irritation

smoking. heat, hot surfaces, open flames, sparks P261 - Avoid breathing fume, gas, mist, vapors, spray.

P271 - Use only outdoors or in a well-ventilated area.

P264 - Wash hands, forearms and face thoroughly after handling.

P302+P352 - If on skin: Wash with plenty of soap and water

Precautionary statements (GHS-US)

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- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact
- lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a doctor, a POISON CENTER
- P312 Call a doctor, a POISON CENTER if you feel unwell
- P321 Specific treatment (see supplemental first aid instructions on this label)
- 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, 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

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

## Not applicable

## SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS-US classification
Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]- (Main constituent)	(CAS-No.) 2216-52-6	98 - 100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements	: see section 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measure	
4.1. Description of first aid me	asures
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. Call a physician immediately.
First-aid measures after ingestion	: 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	: Serious damage to eyes.
4.3. Immediate medical attenti	on and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting meas	ures
<b></b>	

.1. Suitable (and unsuitable) extinguishing 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-reactive under normal conditions of use, storage and transport.		
5.3. Special protective equipment 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.		

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SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective e	quipment 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 containr	nent and cleaning up
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, includ	ing any incompatibilities
Storage conditions :	Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
SECTION 8: Exposure controls/perso	nal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls :	Ensure good ventilation of the work station.
Environmental exposure controls :	Avoid release to the environment.
8.3. Individual protection measures/Pe	rsonal 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

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SECTION 0. Developed and chemical properties		
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a Physical state	: Liquid	
Appearance Color	: A colorless liquid. : Colorless	
Odor	: Menthol minty sweet odor	
	: No data available	
Odor threshold	: No data available	
pH		
Melting point	: Not applicable : No data available	
Freezing point		
Boiling point	: 107 - 108 °C @ 20mm Hg	
Flash point	: 180 °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	: 0.896 - 0.903 g/cm <sup>3</sup>	
Solubility	: Soluble in alcohol, dipropylene glycol. 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		
SECTION 10: Stability and reactivity		
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 effe	ects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	

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Serious eye damage/irritation	: Causes serious eye damage.
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	: Serious damage to eyes.

SECTION 12: Ecological information	on
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

No additional milor mation 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 considerati	ions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	on
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)	<ul> <li>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).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
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

5.1. US Federal regulations	
Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]- (2216-52-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

## 15.2. International regulations

## CANADA

Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]- (2216-52-6)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]- (2216-52-6)

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

### National regulations

Cyclohexanol, 5-methyl-2-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,5.beta.)]-(2216-52-6)

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 PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

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### Full text of H-phrases:

Combustible liquid
Causes skin irritation
Causes serious eye damage
May cause respiratory irritation
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
: 0 - Material that in themselves are normally stable, even under fire conditions.
: 2 Moderate Hazard - Temporary or minor injury may occur
: 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)
: 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.
: 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