

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/03/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]-
Chemical name	: Isopulegol
CAS-No.	: 89-79-2
Product code	: (US) W0911
Formula	: C10H180
Synonyms	: Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, (1R,2S,5R)- / Isopulegol / p-Menth-8-en-3-ol / 1R,2S,5R-Isopulegol / (1R,2S,5R)-5-Methyl-2-(1-methylethenyl)cyclohexanol / L-Isopulegol

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1.2.	Recommende	d use and	restrictions	on use
1.2.	Recommenue	u use anu	1	011

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			
<b>GHS-US classification</b>			
Flammable liquids Category 4	H227	Combustible liquid	
Acute toxicity (oral) Category 4	H302	Harmful if swallowed	
Skin corrosion/irritation Category 2	H315	Causes skin irritation	
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation	
Specific target organ toxicity (single exposure) Category 3	Н335	May cause respiratory irritation	
Full text of H statements : see	section 16		

2.2. GHS Label elements, includ	ling precautionary statements	
GHS-US labeling		
Hazard pictograms (GHS-US)		
Signal word (GHS-US)	: Warning	
Hazard statements (GHS-US)	<ul> <li>H227 - Combustible liquid</li> <li>H302 - Harmful if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> </ul>	
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition smoking. heat, hot surfaces, open flames, sparks</li> <li>P261 - Avoid breathing fume, gas, mist, vapors, spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> </ul>	sources. No
06/22/2018	EN (English US)	Page 1

### Safety Data Sheet

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

P271 - Use only outdoors or in a well-ventilated area. 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 - 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	%	<b>GHS-US classification</b>	
Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (Main constituent)	(CAS-No.) 89-79-2	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	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. 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 and special treatment, if necessary				
Treat symptomatically.				

SECTION 5: Fire-fighting measures			
.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.		
.2. Specific hazards arising from the chemical			
Fire hazard	: Combustible liquid.		

## Safety Data Sheet

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipme	ent 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	e measures
6.1. Personal precautions, prot	ective 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	containment 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 section	S
For further information refer to section 13.	
SECTION 7: Handling and stor	rage
7.1. Precautions for safe handl	
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	e, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.
SECTION 8: Exposure controls	s/personal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering co Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection meas	sures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Respiratory protection.	

Safety Data Sheet

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

In case of insufficient ventilation, wear suitable respiratory equipment

9.1. Information on basic physical	and chemical properties	
Physical state	: Liquid	
Appearance	: A colorless liquid.	
Color	: colorless	
Odor	: minty	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: 212 °C	
Flash point	: 173 °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	: 0.904 - 0.913 g/cm <sup>3</sup>	
Solubility	: No data available	
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	

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 effects

### Safety Data Sheet

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

Acute toxicity	: Not classified
Cyclohexanol, 5-methyl-2-(1-methylethenyl)-	[1R-(1.alpha.,2.beta.,5.alpha.)]- (89-79-2)
ATE US (oral)	500 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	n
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

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

itions
: Dispose of contents/container in accordance with licensed collector's sorting instructions.
tion
: NA1993 Combustible liquid, n.o.s., 3, III
: NA1993
: Combustible liquid, n.o.s.
: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
: III - Minor Danger
: 203
: 241
: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name

### Safety Data Sheet

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

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, 31HD2, 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>	r
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

L5.1. US Federal regulations		
Cyclohexanol, 5-methyl-2-(1-methylether	yl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (89-79-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

### 15.2. International regulations

### CANADA

Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (89-79-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (89-79-2)

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

#### National regulations

Cyclohexanol, 5-methyl-2-(1-methylethenyl)-, [1R-(1.alpha.,2.beta.,5.alpha.)]- (89-79-2)

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 NZIoC (New Zealand Inventory of Chemicals)

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

### Safety Data Sheet

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

### Full text of H-phrases:

Fun	text of ff-pillases.		
	H227	Combustible liquid	
	H302	Harmful if swallowed	
	H315	Causes skin irritation	
	H319	Causes serious eye irritation	
	Н335	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.	
Haz	ard Rating		
Hea	lth	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flan	nmability	: 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)	
Phy	sical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NC react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	
Pers	sonal 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