

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

## Section 1: IDENTIFICATION

Product Name: **Pulegone, Natural**  
 Product Number: **0296300**  
 Recommended Use: **Flavorings**

Manufacturer: **Aurochemicals**  
 7 Nicoll Street  
 Washingtonville, NY 10992 – USA  
 845-496-6065  
 845-496-6248 Fax


Emergency Telephone No.: **1-800-535-5053**  
 (International 1-352-323-3500 collect)

## Section 2: HAZARD(s) IDENTIFICATION

OSHA Hazards **Combustible Liquid, Harmful by ingestion**

GHS Classification **Flammable Liquids (Category 4)**  
**Acute toxicity, Oral (Category 4)**  
**Acute aquatic toxicity (Category 3)**  
**Chronic aquatic toxicity (Category 3), H412**

GHS Label elements, including precautionary statements

Pictogram 

Signal Word: **WARNING**

Hazard Statement: **H227** Combustible liquid  
**H302** Harmful if swallowed  
**H402** Harmful to aquatic life  
**H412** Harmful to aquatic life with long lasting effects

Precautionary Statement **P210** Keep away from heat/sparks/open flame/hot surfaces-No smoking  
**P264** Wash skin thoroughly after handling  
**P270** Do not eat, drink or smoke when using this product  
**P273** Avoid release into the environment  
**P280** Wear protective gloves/protective clothing/eye protection/face protection  
**P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel  
**P330** unwell  
 Rinse mouth  
**P370+P378** In case of fire: Use dry sand, dry chemical or alcohol resistant foam for  
 extinction  
**P403+P235** Store in a well ventilated place. Keep cool

Hazards not otherwise classified (HNOC) or not covered by GHS P501 Dispose of contents/container to an approved waste disposal plant  
None

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	p-Menth-4(8)-en-3-one	Concentration %
Chemical Name	p-Menth-4(8)-en-3-one	
Common Name:	p-Menth-4(8)-en-3-one	
Synonyms:	(+) Pulegone; (R)-p-Menth-4(8)-en-3-one; (R)-2-Isopropylidene-5-methylhexanone	
CAS #	89-82-7	
EC#	201-943-2	
Molecular Weight	152.23 g/mol	
Molecular Formula	C <sub>10</sub> H <sub>16</sub> O	

#### Hazardous component:

Component p-menth-4(8)-en-3-one

Classification

Flammable Liquids (Category 4)  
Acute toxicity, Oral (Category 4)  
Acute aquatic toxicity (Category 3)  
Chronic aquatic toxicity (Category 3), H412

Concentration

-

### Section 4: FIRST AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes as a precaution.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with plenty of mild soap and warm water. Consult a physician.
Inhalation:	Provide fresh air, Consult a physician.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water, seek medical advice, show this container or label to attending physician.
Clothing contamination:	Wash contaminated clothing before re-use.

### Section 5: FIREFIGHTING MEASURES

Conditions of Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat, sparks, open flames, hot surfaces, - No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Other Information	Hazardous decomposition products formed under fire conditions – Carbon oxides. Use water spray to cool unopened containers.

### Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate

Environmental-protected measures	ventilation. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. <b>Vapors can accumulate in low areas.</b>
Procedures for cleaning / absorption	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Ventilate area	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. After sweep up, wash area and ventilate area well.

## Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Contains no substances with occupational exposure limit values.
Personal Protective Equipment:	<b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.</b>
Body Protection:	Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory Protection:	Where risk assessment shows respirators are appropriate the respirator should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Eye Protection:	Wear appropriate face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand Protection:	Wear chemically resistant Nitrile rubber gloves and wash and dry hands after handling this product.
Industrial Hygiene:	Avoid contact with skin, eyes, and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. Wash hands after working with product

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid , oily
Color:	Colorless to pale yellow
Odor:	Pleasant odor, similar to peppermint and camphor
Boiling Point:	224oC

# Safety Data Sheet

Flashpoint:	28°C
Melting Point	No data available
Ignition temperature	No data available
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure:	No data available
Specific Gravity @ 25°C:	0.927-0.940
Solubility	Insoluble in water, miscible with alcohol, ether and chloroform

## Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heat, flames, and sparks
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions-Carbon oxides.

## Section 11: TOXICOLOGICAL INFORMATION

LD50, Oral	No data available
LC50 Inhalation	No data available
LD50 Dermal	No data available
Further toxicological information	No data available
Skin corrosion / irritation	No data available
Serious eye damage / eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

### Carcinogenicity

IARC	No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH.
NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity	No data available
Specific target organ toxicity-Single Exposure (GHS)	No data available
Specific target organ toxicity-Repeated Exposure (GHS)	No data available
Aspiration hazard	No data available

Potential health effects	Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
	Ingestion	May be harmful if swallowed
	Skin	May be harmful if absorbed through skin. Causes skin irritation

Eyes Causes eye irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

No data available

RTECS

OTO261000

## Section 12: ECOLOGICAL INFORMATION

Toxicity

Toxicity to daphnia and other aquatic invertebrates

EC50 – Daphnia pulex (water flea) 24.4 mg/l -48h

Persistence and degradability:  
Biodegradability

Aerobic: Result 67% - Readily biodegradable

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life

## Section 13: DISPOSAL CONSIDERATIONS

Product:

According to local regulations

Packaging:

According to local regulations

## Section 14: TRANSPORT INFORMATION

**DOT (US)**

Proper shipping name

Reportable Quantity (RQ)

Marine Pollutant

Poison inhalation hazard

NA-Number 1993 Class CBL Packing Group III

Combustible Liquid, n.o.s. (p-Menth-4(8)-en-3-one

No

No

No

**IMDG**

**IATA**

Not classified as dangerous goods

Not classified as dangerous goods

## Section 15: REGULATORY INFORMATION

OSHA Hazards

Combustible Liquid, Harmful by ingestion.

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard

# Safety Data Sheet

Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act		
Pennsylvania Right to Know Components	p-Menth-4(8)-en-3-one	CAS # 89-82-7	Rev. Date:
New Jersey Right to Know Components	p-Menth-4(8)-en-3-one	CAS # 89-82-7	Rev. Date:
California Prop. 65 Components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm		
HMIS Classification	Health Hazard	1	
	Flammability	2	
	Physical Hazards	0	

## Section 16: OTHER INFORMATION

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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