

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Section 1: IDENTIFICATION

Product Name: **Thiomenthone (p-Mentha-8-Thiol-3-one) 1% in PG, Natural**

Product Number: **0317701**

CAS-No (s): **38462-22-5 / 57-55-6**

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: Irritant, May cause sensitization by skin contact

GHS Classification: Skin irritation (Category 3)
Eye irritation (Category 2B)

Pictogram or written description



Signal Word: **Warning**

Hazard Statement: **H317** May cause an allergic skin reaction

Precautionary Statement

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Classification

Health Hazard 0

Flammability 1

Physical Hazards 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation

Eyes May cause eye irritation

Ingestion May be harmful if swallowed

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Component(s)	Propane-1,2-diol	CAS# 57-55-6	EC# 200-338-0	99%
	Thiomenthone	CAS# 38462-22-5	EC#253-953-1	1%
Common Name:	Thiomenthone 1% in PG			
Synonyms:	8-Mercaptomenthone 1% in PG			
CAS #	57-55-6/38462-22-5			
EC#	200-338-0/253-953-1			
Formula	C ₁₀ H ₁₈ OS			

Hazardous Components

Component	Classification	Concentration
Propane-1,2-diol		~99%

Section 4: FIRST AID MEASURES

Contact with eyes:	Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.
Contact with skin:	Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water.
Inhalation:	Provide fresh air.
Ingestion:	Immediately drink plenty of water, seek medical advice and show this container or label
Clothing contamination:	Remove contaminated clothing and wash before reuse.

Section 5: FIREFIGHTING MEASURES

Conditions of flammability	Not flammable or combustible
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Firefighting Procedures:	Do not stay in danger zone without self contained breathing apparatus Prevent fire-fighting water from entering surface or ground water Cool unopened containers with water spray from a safe distance. Contain escaping vapors with water. Keep away from sources of ignition
Special Risks	May form explosive mixtures with air at ambient temperatures, Development of hazardous combustion gases or vapors possible in the event of fire.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas
Environmental-protected measures	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewage system or ground waters.
Procedures for cleaning / absorption	Take up with liquid absorbent material. Place in appropriate container and keep closed until disposal
Ventilate area	After clean up, wash spill area and ventilate the area well

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin. Avoid inhalation of vapor or mist
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Hygroscopic

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	Components with workplace control parameters			
Component	CAS#	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	TWA	10 mg/m3	USA, Work place environmental Exposure Levels (WEEL)

Personal Protective Equipment:	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.
Body Protection:	Impervious Protective clothing should be selected specifically for the working 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 air-purifying respirators are appropriate use a full face respirator with multi-purpose combination respirator cartridges as back up to engineering controls. If the respirator is the sole means of protection, use a full face air supplied respirator.
Eye Protection:	Wear appropriate tightly fitting safety goggles with side shields. Face shield (8-inch minimum) NIOSH tested and approved.
Hand Protection:	Wear chemically resistant gloves of Nitrile rubber. Use proper glove removal techniques to avoid contact with skin.
Industrial Hygiene:	Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing and wash before reuse. Wash hands after working with product. Application of barrier cream is recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid, viscous
Color:	Colorless to pale yellow
Odor:	Sulfur – mint
Boiling Point:	~187°C
Flashpoint:	~107°C
Melting Point	-60°C
Ignition temperature	371°C
Lower Explosion Limit	2.6%V
Upper Explosion Limit	12.5%V
Vapor Pressure:	0.11 hPa (0.08 mmHg) at 20°C
Specific Gravity @ 25°C:	1.030-1.050
Solubility	Soluble in water; soluble in most organic solvents

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions
Possible of hazardous reactions	No data available
Conditions to avoid	No data available
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, chloroformates, Reducing agents
Hazardous decomposition products:	Fumes formed under fire conditions – carbon oxides
Further information	No data available

Section 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

This product is a mixture and has not been tested for health hazards. The health hazard information presented below is provided in accordance with 29CFR 1910.1200 and is based on the testing of individual component which have been shown to cause the following health effects when tested at higher concentrations or at full strength.

Acute Toxicity

LD50, Oral Rat	20,000 mg/kg
LC50 Inhalation	No data available
LD50 Dermal Rabbit	20,800 mg/kg
Other information on acute toxicity	LD50 Intramuscular-Rat- 14 g/kg LD50 Intravenous- Dog - 26 g/kg LD50 Intraperitoneal- Rat - 6,600 mg/kg LD50 Subcutaneous – Rat- 22,500mg/kg LD50 Intravenous- Rat – 6,423 mg/kg LD50 Intraperitoneal- Mouse – 9,718 mg/kg <ul style="list-style-type: none"> • Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edemas. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen • Remarks: Behavioral: Change in motor activity (specific assay). Behavioral: Muscle contraction or spasticity. Cyanosis
	LD50 Subcutaneous – Mouse- 17.370 mg/kg
	LD50 Intravenous-Mouse – 6,630 mg/kg
	LD50 Intravenous –Rabbit – 6,500 mg.kg

Skin corrosion/irritation

Serious eye damage/eye irritation	Skin: Human – Mild skin irritation -7 days
Respiratory or skin sensitization	Eyes: Rabbit – Mild eye irritation
Germ cell mutagenicity	No data available
	No data available

Carcinogenicity

IARC	No component of this product, present 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 or potential 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

Teratogenicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available
Specific target organ toxicity-repeated exposures (GHS)	No data available
Aspiration Hazards	No data available
Synergistic effects	No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity	
Toxicity to fish	Mortality NOEC – Pimephales promelas (fathead minnow) 52,930 mg/l -96 hr
Toxicity to daphnia and other aquatic invertebrates	Mortality NOEC-Daphnia – 13,020 mg/l – 48 EC50 – Daphnia magna (Water flea) - >10,000 mg/l 48hr
Further ecological data	Do not allow to enter water, drain or soil

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to local regulations
Packaging:	According to local regulations

Section 14: TRANSPORT INFORMATION

Not subject to transport regulations – Not dangerous Goods

Section 15: REGULATORY INFORMATION

OSHA Hazards	Irritant
SARA 302 Components	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	Acute Health Hazard
Massachusetts Right to Know Components	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know Components	Propane-1,2-diol CAS# 57-55-6 Revision Date: 8/11/89
New Jersey Right to Know Components	Propane-1,2-diol CAS# 57-55-6 Revision Date: 8/11/89
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.

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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