

Safety Data Sheet

HEALTH	2
FLAMMABILITY	3
REACTIVE	0

Section 1: IDENTIFICATION

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

Product Number: **0317700**

Recommended Use: **Flavorings**

Manufacturer: **Aurochemicals
7 Nicoll Street
Washingtonville, NY 10992**

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

Section 2: HAZARD(s) IDENTIFICATION

Chemical Classification: **Flammable liquids (Category 2) H225
Acute toxicity, Oral (Category 3) H301
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H401**

Hazard Statement: **H225 Highly Flammable,
H301 Toxic if swallowed
H401 Very toxic to aquatic life with long lasting effects**

Pictogram or written description



Signal Word:

Danger

Precautionary Statement

P210	Keep away from heat/sparks/open flames/hot surfaces-No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion proof equipment
P242	Use only non sparking tools
P243	Take precautionary measures against static discharge
P280	Wear protective gloves/protective clothing/eye and face protection
P303+P361+P353	IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when handling this product
P273	Avoid release to the environment
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or

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	P330	doctor/physician
	P391	Rinse mouth
	P405	Collect spillage
	P501	Store locked up
Description of HNOC	None	Dispose of contents/container to an approved waste disposal plant.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substances:	p-Mentha-8-thiol-3-one + Ethyl Alcohol
Chemical Name	p-Mentha-8-thiol-3-one
Common Name:	Thiomenthone 1% in ETOH Solution
Synonyms:	
CAS #	38462-22-5 / 64-17-5
EC#	253-953-1 / 200-578-6

Hazardous Components	Classification	Concentration
2-(1-Mercapto-1-methylethyl)-5-methylcyclohexan-1-one	Acute Toxicity (3) H301 Acute Aquatic (1) H400 Chronic Aquatic (1) H410	1%
Ethyl Alcohol	Flammable Liquid (2) H225	99%

Section 4: FIRST AID MEASURES

Contact with eyes:	Rinse thoroughly with plenty of water and seek medical advice
Contact with skin:	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, show this container or label
Clothing:	Remove contaminated clothing and shoes and wash before re-use

Section 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide
Special hazards	Carbon oxides, sulfur oxides
Special Firefighting Procedures:	Wear self contained breathing apparatus for fire-fighting if necessary. Use water spray to cool unopened container
Further Information	

Section 6: ACCIDENTIAL RELEASE MEASURES

Person-related precautionary measures	Use personal protective equipment. Avoid breathing vapors/mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental protection measures	Do not allow to enter sewage system.
Procedures for absorption/cleaning	Take up with liquid absorbent material. Forward for disposal. Clean affected area and ventilate well.

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Section 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion proof equipment. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharge.

Storage: Keep container tightly closed in a dry and well ventilated place Containers which have been opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Component	CAS-No	Value	Control Parameter	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values
Remarks:		Upper Respiratory Tract Irritation. Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m ³	USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contaminants
		The value in mg/m ³ is approximate		
		TWA	1,000 ppm 1,900 mg/m ³	USA. NIOSH Recommended Exposure Limits

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: 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 the 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 (US) or type ABEK (EN 14387) respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye protection: 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: Handle with gloves. Chemical resistant Butyl Rubber, 0.3mm thick. Use proper glove removal techniques (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.

Industrial hygiene: Change contaminated clothing. Application of skin-protective barrier cream recommended. Wash hands after handling or working with substance. Do not let product enter drains.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Pale yellow to yellow liquid
Odor:	No data available
Boiling Point:	78oC
Flashpoint:	ca. 16.6°C
Melting Point:	-114oC
Explosive Properties:	No data available
Lower Explosion Limit	Upper explosion limit 19% (V) Lower explosion limit 3.3%
Upper Explosion Limit	No data available
Oxidizing properties:	No data available
Vapor Pressure:	29.5 hPa at 20oC
Specific Gravity @25°C:	0.799-0.823
Solubility in Water:	Insoluble
Solubility in Organic Solvents:	Soluble in most organic solutions

Section 10: STABILITY AND REACTIVITY

Conditions to be avoided:	Heat, Flames, Sparks. Extremes of temperature and direct sunlight
Substances to be avoided	Alkali metals, Ammonia, Oxidizing Agents, Peroxides
Hazardous decomposition products:	Vapors may form explosive mixture with air
Further Information:	No information 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:	7,060 mg/kg
	Remarks: Lungs, Thorax or Respiration: Other changes
LD50, Dermal	No information available
LD50, Inhalation, Rat	20,000 ppm 10 hr
Skin corrosion/irritation	Rabbit: No skin irritation -24 hr (OECD Test Guideline 404)
Serious Eye Damage/Irritation	Rabbit: Mild eye irritation – 24 hr (OECD Test Guideline 405)

Carcinogenicity

	Carcinogenicity-Mouse-Oral
	Tumorigenic: Equivocal Tumorigenic agent by RTECS criteria: Liver: Tumors
	Blood: Lymphomas including Hodgkin's disease.
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.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is

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identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Reproductive toxicity- Human-Female-Oral
Effects on newborn: Apgar score (human only); other neonatal measures or effects.
Drug dependence

Potential Health Effects

**Central nervous system depression, narcosis. Damage to heart.
Heart irregularities-Based on Human Evidence
Stomach irregularities-Based on Human Evidence**

Additional Information

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

RTECS

KQ6300000

Section 12: ECOLOGICAL INFORMATION

Biological degradation	No information available
Ecotoxic effects	No information available
Behavior in environmental compartments	No information available
Further ecological data	Do not allow to enter groundwater, drains or soil

Section 13: DISPOSAL CONSIDERATIONS

Product:	According to official regulations
Packaging:	According to official regulations

Section 14: TRANSPORT INFORMATION

DOT UN-No	UN1170 Ethanol Solution	Class 3, PG II
IMDG- Classification	UN1170 Ethanol Solution	Class 3, PG II
IATA-Classification	UN1170 Ethanol Solution	Class 3, PG II
ADR- Classification	UN1170 Ethanol Solution	Class 3, PG II

Section 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in these materials or solutions are subject to the reporting requirement 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 Hazards, Acute Health Hazard, Chronic Health Hazards

Massachusetts Right to Know Components:

Ethanol	CAS # 64-17-5	Revision Date: 3/1/2007
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Pennsylvania Right to Know Components:

Ethanol	CAS # 64-17-5	Revision Date: 3/1/2007
2-(1-Mercapto-1-methylethyl)5-methylcyclohexan-1-one	CAS # 38462-22-5	Revision Date:

New Jersey Right to Know Components:

Ethanol	CAS # 64-17-5	Revision Date: 3/1/2007
2-(1-Mercapto-1-methylethyl)5-methylcyclohexan-1-one	CAS # 38462-22-5	Revision 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.

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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.

Issued by:	Contact Person:
Aurochemicals	Deo N. Persaud
7 Nicoll Street	11/21/2022
Washingtonville, NY 10992 USA	