# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)



Product Name 8-Thiomenthone Natural, 1% in OH

### 1. Identification

**Product identifier** 

**Product Name** 8-Thiomenthone Natural, 1% in OH

Other means of identification

Chemical name p-Mentha-8-thiol-3-one

Product Code(s) NA3177-1-OH

UN number or ID number 1170

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use flavors

Restrictions on use No information available

Details of the supplier of the safety data sheet

### **Manufacturer Address**

Axxence Corporation 1050 Cypress Creek Rd. Oakdale, La 71463 www.axxence.com Tel. 318-215-1456 Fax 318-335-1579

### Emergency telephone number

Emergency Telephone EMERGENCY 24 HOUR CONTACT

ChemTrec: 1-800-424-9300

Contract # 219030

### 2. Hazard(s) identification

### Classification

Classification according to Regulation 29 CFR 1910.1200

Flammable liquids Category 2

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements



Danger

### Hazard statements

Highly flammable liquid and vapor.

#### **Precautionary Statements - Prevention**

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

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use only non-sparking tools.

Take action to prevent static discharges.

Wear protective gloves, eye protection and face protection.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

### **Precautionary Statements - Response**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of fire: Use CO2, dry chemical, or foam to extinguish.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

#### **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

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### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

### Other information

Toxic to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

**Product Name** 8-Thiomenthone Natural, 1% in OH

Substance

Not applicable.

Mixture

Formula C10H18OS

Molecular weight 186.31 g/mol

Chemical name	CAS No.	EC No (EU Index No)	Weight-%	Trade secret
Ethanol	64-17-5	200-578-6	99	-
		(603-002-00-5)		

## 4. First-aid measures

Description of first aid measures

Remove to fresh air. Inhalation

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.

Ingestion Rinse mouth.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use

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personal protective equipment as required. See section 8 for more information.

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Risk of ignition. Keep product and empty container away from heat and sources of ignition.

In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

Do not scatter spilled material with high pressure water streams.

Most important symptoms and effects, both acute and delayed

No information available. **Symptoms** 

No information available. **Effects of Exposure** 

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### 5. Fire-fighting measures

Flash point 17 °C / 62.6 °F

Flammability Limit in Air

Upper flammability or explosive No data available limits

Lower flammability or explosive No data available

limits

**Suitable Extinguishing Media** Unsuitable extinguishing media

Specific hazards arising from the chemical

extinguishing water must be disposed of in accordance with local regulations.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

Special protective equipment and

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. precautions for fire-fighters Use personal protection equipment.

Special attention to fire and

explosion

None

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Use personal protective equipment as required. See Personal precautions

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area.

Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor

suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff

water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other

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non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing

vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers.

Use according to package label instructions.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing must not

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national

regulations. Store in accordance with local regulations.

### 8. Exposure controls/personal protection

**Control Parameters** 

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm	TWA: 1000 ppm;
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup> ;
		(vacated) TWA: 1000 ppm	IDLH: 3300 ppm
		(vacated) TWA: 1900 mg/m <sup>3</sup>	

### **Appropriate engineering controls**

General hygiene considerations

Engineering controls Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Antistatic boots.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is

recommended. Wash hands before breaks and immediately after handling the product.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear Physical state Liquid

Color Colorless; to; light yellow fruity, black currant

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownBoiling point (or initial boiling point or78 °C / 172.4 °FNone known

boiling range)

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available

Lower flammability or explosive limits No data available 17 °C / 62.6 °F Flash point CC (closed cup) **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known SADT (°C) No data available None known No data available pН None known pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Solubility Alcohol None known

Water solubility
No data available
Soluble in water
None known
None known
None known

Partition coefficient n-octanol/water (log

value)

Vapor pressure (includes evaporation rate)No data availableNone knownEvaporation rateNo data availableNone knownDensity and/or relative density0.8004 - 0.8204None known

Bulk density
No data available
Liquid Density
No data available

Relative vapor density >1.0 None known Particle characteristics None known

Particle Size No data available
Particle Size Distribution No data available

Other information

Molecular weight 186.31 g/mol

### 10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous reactions
Conditions to avoid

No information available.
Stable under normal conditions.
None under normal processing.
Heat, flames and sparks.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

### 11. Toxicological information

Information on likely routes of exposure

InhalationSpecific test data for the substance or mixture is not available.Eye contactSpecific test data for the substance or mixture is not available.Skin contactSpecific test data for the substance or mixture is not available.IngestionSpecific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

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Acute toxicity No information available.

**Numerical measures of toxicity** 

The following ATE values have been calculated for the mixture

 ATEmix (oral)
 7,131.30 mg/kg

 ATEmix (dermal)
 99,999.00 mg/kg

 ATEmix (inhalation-gas)
 99,999.00 ppm

 ATEmix (inhalation-dust/mist)
 118.10 mg/l

 ATEmix (inhalation-vapor)
 99,999.00 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	= 7060 mg/kg (Rat)	-	= 116.9 mg/L (Rat) 4 h
64-17-5			= 133.8 mg/L (Rat) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Carcinogenicity

No information available.
No information available.
No information available.
No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
64-17-5	A3 - Confirmed Animal	-		
	Carcinogen with Unknown			
	Relevance to Humans			

### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Target organ effects Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive

system.

Aspiration hazard No information available.
Other adverse effects No information available.
Interactive effects No information available.

### 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Chem	nical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
				microorganisms	
E	thanol	-	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 - 14221mg/L
6	4-17-5		(96h, Oncorhynchus		(48h, Daphnia magna)
			mykiss)		EC50: =2mg/L (48h,
			LC50: >100mg/L (96h,		Daphnia magna)
			Pimephales promelas)		
			LC50: 13400 - 15100mg/L		
			(96h, Pimephales		
			promelas)		

Persistence and degradability No information available.

**Bioaccumulation** 

**Component Information** Chemical name Partition coefficient Ethanol -0.35 64-17-5

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Other adverse effects No information available.

### 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused Should not be released into the environment. Dispose of in accordance with local

products regulations. Dispose of waste in accordance with environmental legislation.

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld Contaminated packaging

containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as

a hazardous waste.

### 14. Transport information

DOT

1170 **UN** number or ID number

Ethanol solution Proper shipping name

Transport hazard class(es) 3 Packing group Ш **DOT Marine Pollutant** NΡ

IATA

**UN number or ID number** 1170

UN proper shipping name Ethanol solution

Transport hazard class(es) Packing group Ш

**IMDG** 

**UN** number or ID number 1170

**UN** proper shipping name Ethanol solution

Transport hazard class(es) 3 Packing group Ш Marine pollutant indicator NP

### 15. Regulatory information

**International Regulations** 

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories** 

TSCA Listed

**DSL/NDSL** Listed **EINECS/ELINCS** Listed Not Listed **ENCS IECSC** Listed **KECL** Not Listed **PICCS** Listed Listed AIIC **NZIoC** Listed **Taiwan** Listed

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
Ethanol - 64-17-5	Carcinogen
	Developmental

### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethanol	X	X	X
64-17-5			

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### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

NOAEL

NFPAHealth hazards0Flammability0Instability0Special hazards-HMISHealth hazards0Flammability0Physical hazards0Personal protection

### Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Governmental Industrial Hygienists	
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)	
AIIC	Australian Inventory of Industrial Chemicals	
ATE	Acute Toxicity Estimate	
ASTM	American Society for the Testing of Materials	
bar	Biological Reference Values for Chemical Compounds in the Work Area	
BAT	Biological tolerance values for occupational exposure	
BEL	Biological exposure limits	
bw	Body weight	
Ceiling	Maximum limit value	
CMR	Carcinogen, Mutagen or Reproductive Toxicant	
DOT	Department of Transportation (United States)	
DSL	Domestic Substances List (Canada)	
EmS	Emergency Schedule	
ENCS	Existing and New Chemical Substances (Japan)	
EPA	Environmental Protection Agency	
GHS	Globally Harmonized System	
HMIS	Hazardous Materials Identification System	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous	
	Chemicals in Bulk	
ICAO	International Civil Aviation Organization	
IECSC	Inventory of Existing Chemical Substances in China	
IMDG	International Maritime Dangerous Goods	
IMO	International Maritime Organization	
ISO	International Organization for Standardization	
KECI	Korean Existing Chemicals Inventory	
LC50	Lethal Concentration to 50% of a test population	
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)	
MARPOL	International Convention for the Prevention of Pollution from Ships	
NFPA	National Fire Protection Association	
NIOSH	National Institute for Occupational Safety and Health	
n.o.s.	Not Otherwise Specified	
NOAEC	No Observed Adverse Effect Concentration	
NOAEL	No Observed Adverses Effect Level	

No Observed Adverse Effect Level

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NOELR	No Observable Effect Loading Rate	
NTP	National Toxicology Program (United States)	
NZIoC	New Zealand Inventory of Chemicals	
OECD	Organization for Economic Cooperation and Development	
OEL	Occupational exposure limits	
OSHA	Occupational Safety and Health Administration of the US Department of Labor	
PBT	Persistent, Bioaccumulative and Toxic substance	
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
PMT	Persistent, Mobile and Toxic	
PPE	Personal protective equipment	
QSAR	Quantitative Structure Activity Relationship	
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)	
SADT	Self-Accelerating Decomposition Temperature	
SAR	Structure-activity relationship	
SARA	Superfund Amendments and Reauthorization Act	
SDS	Safety Data Sheet	
SL	Surface Limit	
STEL	Short Term Exposure Limit	
STOT RE	Specific target organ toxicity - Repeated exposure	
STOT SE	Specific target organ toxicity - Single exposure	
TCSI	Taiwan Chemical Substance Inventory	
TDG	Transport of Dangerous Goods (Canada)	
TSCA	Toxic Substances Control Act (United States)	
TWA	Time-Weighted Average	
UN	United Nations	
VOC	Volatile organic compounds	
vPvB	Very Persistent and Very Bioaccumulative	
vPvM	Very Persistent and Very Mobile	
As	Allergenic substance	
DS	Dermal Sensitizer	
Ot	Ototoxicant	
pOt	Ototoxicant - potential to cause hearing disorders	
PS	Photosensitizer	
RS	Respiratory Sensitizer	
S	Sensitizer	
poS	Sensitizer - capable of causing occupational asthma	
Sa	Simple asphyxiant	
Sd	Skin designation	
pSd	Skin designation - potential for cutaneous absorption	
Sdv	Skin designation - vacated	
Sk	Skin notation	
dSk	Skin notation - danger of cutaneous absorption	

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**