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 50%, Natural

1. Identification

Product identifier

Product Name 8-Thiomenthone 50%, Natural

Other means of identification

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

Product Code(s) NA3177-50

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.

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 50%, Natural

Substance

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	50	-
		(603-002-00-5)		

4. First-aid measures

Description of first aid measures

Remove to fresh air. Inhalation

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

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

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

and shoes.

Rinse mouth. Ingestion

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

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

Most important symptoms and effects, both acute and delayed

Symptoms No information available. **Effects of Exposure** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

°C / 57.2 °F Flash point

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

chemical

Suitable Extinguishing Media Unsuitable extinguishing media

Specific hazards arising from the

Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Do not scatter spilled material with high pressure water streams.

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

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

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

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.

Ventilate the area. Other information

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

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

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

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 ³	TWA: 1900 mg/m ³ ;
		(vacated) TWA: 1000 ppm	IDLH: 3300 ppm
		(vacated) TWA: 1900 mg/m ³	

Appropriate engineering controls

General hygiene considerations

Engineering controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eve/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

Odor (includes odor threshold) fruity, black currant

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownBoiling point (or initial boiling point or79 °C / 174.2 °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

14 °C / 57.2 °F Flash point CC (closed cup) **Autoignition temperature** No data available None known Decomposition temperature No data available None known No data available SADT (°C) None known No data available None known pН 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 Oil Propylene Glycol None known Water solubility No data available Insoluble in water None known

Partition coefficient n-octanol/water (log No data available Insoluble in water None known None known

value)

Vapor pressure (includes evaporation rate)No data availableNone knownEvaporation rateNo data availableNone knownDensity and/or relative density0.87 - 0.91None 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.

Acute toxicity No information available.

Numerical measures of toxicity

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 No information available. Serious eye damage/eye irritation No information available. Respiratory or skin sensitization No information available. No information available. Germ cell mutagenicity Carcinogenicity 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 No information available. STOT - single exposure No information available. STOT - repeated exposure No information available.

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

system.

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

12. Ecological information

Toxic to aquatic life with long lasting effects. **Ecotoxicity** Chemical name Algae/aguatic plants Fish Toxicity to Crustacea

	gara-a-quanta promise		microorganisms	
Ethanol	-	LC50: 12.0 - 16.0mL/L	-	LC50: 9268 - 14221mg/L
64-17-5		(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)		
 	. I. 1114	91 1 1		

Persistence and degradability

No information available.

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Ethanol	-0.35
64-17-5	

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.

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

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

Proper shipping name Ethanol solution

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

IATA

UN number or ID number 1170

Ethanol solution **UN proper shipping name**

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 NΡ

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

Listed **TSCA**

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

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 Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AllC - 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

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards - Health hazards 0 Flammability 0 Physical hazards 0 Personal protection -

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

Legend			
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 GHS	Environmental Protection Agency		
	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 Adverse Effect Level		
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 DS	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
pSk	Skin notation - potential for 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

Revision Number

Revision date 28-Feb-2025

Revision NoteNo 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