# according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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# **1** Identification Product identifier · Trade name: Listerine · Product code: MW5000 Recommended use and restriction on use · Recommended use: Laboratory chemicals · Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Flam. Liq. 3 H226 Flammable liquid and vapor. Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: GHS02 · Signal word: Warning · Hazard statements: H226 Flammable liquid and vapor. · Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. P233 P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment.

- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves and eye protection.

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P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 P403+P235	In case of fire: Use for extinction: Alcohol resistant foam or water spray. Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
<sup>.</sup> Other hazard	Is There are no other hazards not otherwise classified that have been identified.

# **3** Composition/information on ingredients

### · Chemical characterization: Mixtures

· Components:			
64-17-5		10-30%	
	<ul> <li>♦ Flam. Liq. 2, H225</li> <li>♦ Eye Irrit. 2A, H319</li> </ul>		
89-78-1	Menthol	<5%	
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319		
89-83-8	thymol	<1%	
	<ul> <li>Skin Corr. 1B, H314</li> <li>Acute Tox. 4, H302</li> </ul>		
119-36-8	Methyl salicylate	<1%	
	Acute Tox. 4, H302; Skin Irrit. 2, H315		
470-82-6	Eucalyptol	<1%	
	<ul> <li>Flam. Liq. 3, H226</li> <li>Skin Sens. 1B, H317</li> </ul>		
Addition	al information		

### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

### <sup>•</sup> Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

### • After skin contact:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

# If skin irritation is experienced, consult a doctor.

### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

• Most important symptoms and effects, both acute and delayed: No relevant information available.

· Danger: No relevant information available.

Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

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### **5** Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents: Alcohol resistant foam

Water fog / haze

Carbon dioxide

Gaseous extinguishing agents

Fire-extinguishing powder

• For safety reasons unsuitable extinguishing agents: Water stream.

# Special hazards arising from the substance or mixture

Flammable liquid and vapor.

Formation of toxic gases is possible during heating or in case of fire.

<sup>•</sup> Advice for firefighters

### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information: Use large quantities of foam as it is partially destroyed by the product.

# 6 Accidental release measures

### <sup>•</sup> Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

### **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# 7 Handling and storage

## <sup>.</sup> Handling

## · Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Flammable liquid and vapor.

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• Conditions for safe storage, including any incompatibilities • Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

• Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

· Components with limit values that require monitoring at the workplace:

### 64-17-5 Ethanol

PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m³, 1000 ppm
EL (Canada)	Short-term value: 1000 ppm
EV (Canada)	Long-term value: 1900 mg/m³, 1000 ppm
LMPE (Mexico)	Long-term value: 1000 ppm
	A3
89-78-1 Mentho	bl
WEEL (LISA)	Short-term value: 10.2* mg/m <sup>3</sup> .3* ppm

WEEL (USA) Short-term value: 19.2\* mg/m<sup>3</sup>, 3\* ppm Long-term value: 6.4\* mg/m<sup>3</sup>, 1\* ppm \*OARS WEEL

### • Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Engineering controls: Provide adequate ventilation.

- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:



Protective gloves

### Material of gloves

A recommendation for a suitable glove material is not available. Testing will be required to determine the suitability of any potential glove materials.

# • Eye protection:



Safety glasses

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Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

# Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

Information on basic physical a	and chemical properties
· Appearance: Form:	Liquid
Color:	Liquid Amber colored
· Odor:	Pleasant
· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	3.9-4.5
• Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	39 °C (102.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
<sup>.</sup> Danger of explosion:	Product is not explosive. However, formation of explosive a vapor mixtures are possible.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties:	Non-oxidizing.
· Vapor pressure:	Not determined.
Density:	
Relative density:	Not determined.
Vapor density:	Not determined. Not determined.
Evaporation rate:	
· Solubility in / Miscibility with	<b>-</b>
Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
<sup>•</sup> Other information	No relevant information available.

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# 10 Stability and reactivity

• Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Flammable liquid and vapor.

Used empty containers may contain product gases which form explosive mixtures with air. Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

• **Conditions to avoid** Keep ignition sources away - Do not smoke.

Incompatible materials Oxidizers

### Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

## **11** Toxicological information

### <sup>·</sup> Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 >63600 mg/kg (rat)

89-78-1 Menthol

Oral LD50 3180 mg/kg (rat)

### · Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

• On the eye: Based on available data, the classification criteria are not met.

• Sensitization: Based on available data, the classification criteria are not met.

### · IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

### • NTP (National Toxicology Program):

None of the ingredients are listed.

### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

### Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

· Repeated dose toxicity: No relevant information available.

• Germ cell mutagenicity: Based on available data, the classification criteria are not met.

 $\cdot$  Carcinogenicity: Based on available data, the classification criteria are not met.

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- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

# **12 Ecological information**

- <sup>·</sup> Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- <sup>•</sup> Additional ecological information
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. • **Other adverse effects** No relevant information available.

# 13 Disposal considerations

### <sup>•</sup> Waste treatment methods

### · Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

## <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	UN1170	
UN proper shipping name		
DOT	Ethanol	
ADR/RID/ADN, IMDG	ETHANOL (ETHYL ALCOHOL)	
IATA	ETHANOL	
Transport hazard class(es)		
DOT		
Class	3	
Label	3	

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· ADR/RID/ADN		
· Class · Label	3 (F1) 3	
· IMDG, IATA		
· Class	3	
· Label	3	
<sup>·</sup> Packing group <sup>·</sup> DOT, ADR/RID/ADN, IMDG, IATA	III	
Environmental hazards	Not applicable.	
• Special precautions for user • Hazard identification number (Kemler code): • EMS Number:	Warning: Flammable liquids 30 F-E, <u>S-E</u>	
Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	f Not applicable.	

# **15 Regulatory information**

Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA · Section 302 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. · TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. · Proposition 65 (California) · Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 64-17-5 Ethanol Chemicals known to cause developmental toxicity for females: None of the ingredients are listed.

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### • Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

### • Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product. 64-17-5 Ethanol

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

## · IARC (International Agency for Research on Cancer):

64-17-5 Ethanol

### Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

## **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Skin Sens. 1B: Skin sensitisation - Category 1B Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers