Printing date 06/11/2024

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Reviewed on 06/11/2024

<b>Identification</b>	
Product identifier	
Trade name: <u>Thymol 25% w/v</u> In IPA	
Article number: ND156	
Details of the supplier of the safety data she	
Manufacturer/Supplier:	
Aqua Solutions, Inc.	I AQUA I SOLUTIONS
6913 Highway 225 DEER PARK, TX 77536	SOLUTIONS
USA	
800-256-2586	
Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolutions.o	)rg
Emergency telephone number:	~···
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
GHS02 Fiame	
▼	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Flammable Liquids 2 GHS05 Corrosion	H225 Highly flammable liquid and vapor.
	H225 Highly flammable liquid and vapor.
	H225 Highly flammable liquid and vapor. H314 Causes severe skin burns and eye damage.
GHS05 Corrosion	
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1	H314 Causes severe skin burns and eye damage.
GHS05 Corrosion Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo	H314 Causes severe skin burns and eye damage.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified Hazard pictograms	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
GHS05 Corrosion Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
Skin Corrosion 1B Eye Damage 1 GHS07 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified Hazard pictograms	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. psure 3 H336 May cause drowsiness or dizziness.
Skin Corrosion 1B Eye Damage 1 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified Hazard pictograms GHS02 GHS05 GHS07 Signal word Danger Hazard-determining components of labeling	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. osure 3 H336 May cause drowsiness or dizziness. d and labeled according to the Globally Harmonized System (GHS).
Skin Corrosion 1B Eye Damage 1 Specific Target Organ Toxicity - Single Expo Label elements GHS label elements The product is classified Hazard pictograms GHS02 GHS05 GHS07 Signal word Danger	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. osure 3 H336 May cause drowsiness or dizziness. d and labeled according to the Globally Harmonized System (GHS).

Printing date 06/11/2024

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

	(Contd. of page 1)
· Hazard statements	
Highly flammable liquid and vapor.	
Causes severe skin burns and eye damage.	
May cause drowsiness or dizziness.	
· Precautionary statements	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse	
IF INHALED: Remove person to fresh air and keep comfortable for breat	
If in eyes: Rinse cautiously with water for several minutes. Remove co	ntact lenses, if present and easy to do.
Continue rinsing.	
Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/	international regulations.
· Classification system:	0
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = $3$	
3 $0$ Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 3 $Health = 3$	
FIRE 3 Fire = 3	
<b>REACTIVITY O</b> $Reactivity = 0$	
· Other hazards	
· Results of PBT and vPvB assessment	
· <b>PBT</b> : Not applicable.	
<b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• <b>Description:</b> Mixture of the substances listed below with nonhazardous aa	lditions
Description. Initiate of the substances listed below with homazarabus ad	миноны,

## · Dangerous components:

CAS: 67-63-0 Isopropanol

70.194% (Contd. on page 3)

US

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

CAS: 89-83-8 Thymol

(Contd. of page 2) 29.806%

#### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · Extinguishing media
- $\cdot$  Suitable extinguishing agents:
- *CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.* • *Special hazards arising from the substance or mixture*
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

## 6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	
Do not allow product to reach sewage system or any water course.	
Inform respective authorities in case of seepage into water course or sewage system.	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· 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.	
· Protective Action Criteria for Chemicals	
• PAC-1:	
CAS: 67-63-0 Isopropanol	400 ppm
CAS: 89-83-8 Thymol	$2.9 mg/m^{3}$
	Contd. on page 4)
	US -

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

	(Contd. of page 3)
· PAC-2:	
CAS: 67-63-0 Isopropanol	2000* ppm
CAS: 89-83-8 Thymol	32 mg/m <sup>3</sup>
· PAC-3:	
CAS: 67-63-0 Isopropanol	12000** ppm
CAS: 89-83-8 Thymol	190 mg/m <sup>3</sup>

## 7 Handling and storage

#### · Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.*
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

#### CAS: 67-63-0 Isopropanol

- PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

#### · Ingredients with biological limit values:

#### CAS: 67-63-0 Isopropanol

- BEI 40 mg/L
  - LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)

(Contd. on page 5)

<sup>-</sup> US

Printing date 06/11/2024

\*

Trade name: Thymol 25% w/v In IPA Reviewed on 06/11/2024

• Additional information: The lists that were valid during the creation were used as basis.	(Contd. of page 4
· Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes.	
Avoid contact with the eyes and skin.	
Breathing equipment:	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or	longer exposure us
respiratory protective device that is independent of circulating air.	
Protection of hands:	
The glove material has to be impermeable and resistant to the product/ the substance/ the prep Due to missing tests no recommendation to the glove material can be given for the product/	
chemical mixture.	r r
Selection of the glove material on consideration of the penetration times, rates of diffusion and	d the degradation
Material of gloves	Ũ
The selection of the suitable gloves does not only depend on the material, but also on further varies from manufacturer to manufacturer. As the product is a preparation of several substant he glove material can not be calculated in advance and has therefore to be checked prior to t	ces, the resistance of
Penetration time of glove material	11
The exact break through time has to be found out by the manufacturer of the protective g observed.	loves and has to b
Eye protection:	
Tightly sealed goggles	
Bady protection: Protective work clothing	
Body protection: Protective work clothing	

Information on basic physical and General Information	chemical properties	
Appearance:	Liquid	
Form: Color:	Liquid Clear	
Odor:	Distinct	
• Odor: • Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	82 °C (179.6 °F)	

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

#### Trade name: Thymol 25% w/v In IPA

	(Contd. of page 5
· Flash point:	13 °C (55.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	2 Vol %
Upper:	12 Vol %
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
· Density at 20 °C (68 °F):	0.84011 g/cm <sup>3</sup> (7.01072 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	70.2 %
VOC content:	70.19 %
	589.7 g/l / 4.92 lb/gal
Solids content:	29.8 %
• Other information	No further relevant information available.

## **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 7)

US

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

(Contd. of page 6)

3

#### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 3,288 mg/kg (rat)* 

#### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

*The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive* 

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

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

CAS: 67-63-0 Isopropanol

· NTP (National Toxicology Program)

None of the ingredients is listed.

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

None of the ingredients is listed.

## **12** Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

(Contd. on page 8)

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

(Contd. of page 7)

# **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- *Recommendation: Disposal must be made according to official regulations.*
- Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name	
·DOT	Flammable liquids, n.o.s. (Isopropanol )
· IMDG	, FLAMMABLE LIQUID, N.O.S. (Isopropanol ), MARINE POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
· Transport hazard class(es)	
·DOT	
· Class · Label	3 Flammable liquids 3, 8
· IMDG	
· Class	3 Flammable liquids
· Label	3/8
·IATA	
· Class	3 Flammable liquids
· Label	3 (8)
· Packing group · DOT, IMDG, IATA	11
· Environmental hazards:	Product contains environmentally hazardous substances: Thyn

Printing date 06/11/2024

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

	(Contd. of page
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code	
EMS Number:	F-E,S-C
Segregation groups	(SGG18) Alkalis
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Segregation Code	SG35 Stow "separated from" SGG1-acids
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
2	On cargo aircraft only: 5 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{EQ})$	Code: E2
2	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL ), 3 (8), II

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara

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None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 67-63-0 Isopropanol	
TSCA (Toxic Substances Control Act):	
Isopropanol	ACTIVI
Thymol	ACTIVI
Hazardous Air Pollutants	· · · ·
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
	(Contd. on page 1

*Printing date 06/11/2024* 

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

(Contd. of page 9)

A4

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 67-63-0 Isopropanol

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



011302 011303 0113

· Signal word Danger

· Hazard-determining components of labeling: Thymol Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes severe skin burns and eye damage. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. *Ground/bond container and receiving equipment.* Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dusts or mists. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. (Contd. on page 11)

US ·

Printing date 06/11/2024

Reviewed on 06/11/2024

Trade name: Thymol 25% w/v In IPA

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. of page 10)

#### **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.

- Department issuing SDS: Environment protection department.
  Contact: Date of Preparation / Last Revision:
   Date of preparation / last revision Revision 1.2, 06/10/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN
- 06/11/2024 / 1.0 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit **BEI:** Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • \* Data compared to the previous version altered.