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Version number 1

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**SECTION 1: Identification of the substance or mixture and of the supplier****1.1 Product identifier****Trade name:** Aquahol**Product Code(s):** IC-220**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use:** Product supplied for professional use only**Technical function** Sanitizer**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Micronova Manufacturing  
3431 West Lomita Boulevard  
Torrance, CA, 90505, USA  
Tel: +1 (310)784-6990  
Fax: +1 (310)784-6980  
Email: dleonard@micronova-mfg.com  
www.micronova-mfg.com

**1.4 Emergency telephone number(s):** CHEMTREC New Zealand: +64 9-801 0034**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008:**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:**

GHS02 GHS07

**Signal word:** Danger**Hazard-determining components of labelling:**

Propan-2-ol

**Hazard statements:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

Contains biocidal products: Propan-2-ol

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/Information on ingredients****Description:** Mixture consisting of the following components.**Hazardous components:**

CAS: 67-63-0	Propan-2-ol	≥50-≤100%
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****After inhalation:** Move patient to fresh air, if symptoms persist consult a doctor.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:**

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

**4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Fire fighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**5.3 Advice for firefighters****Protective equipment:** No special measures required.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures** Not required.**6.2 Environmental precautions** Dilute with plenty of water.**6.3 Methods and material for containment and cleaning up**

Ensure adequate ventilation.

Dispose contaminated material as waste according to section 13.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**Information about fire - and explosion protection:** No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep container tightly closed.

**7.3 Specific end use(s):** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters** No further information available

**Ingredients with limit values that require monitoring at the workplace:**

**67-63-0 Propan-2-ol**

WES (New Zealand)	Short-term value: 1230 mg/m <sup>3</sup> , 500 ppm Long-term value: 983 mg/m <sup>3</sup> , 400 ppm
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**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

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

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Hand protection**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture.

Select the glove material based on a consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time must be determined by the manufacturer of the protective gloves.

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**Eye/face protection**



Safety goggles (EN 166).

Goggles recommended during refilling

**Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Fluid
<b>Colour:</b>	Colourless.
<b>Odour:</b>	Alcohol-like.
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	-90 °C
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	18 °C
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	7
<b>VOC (EC):</b>	
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	41 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.875 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

**9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Liquid.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Softening point/range</b>	
<b>Oxidising properties</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Not applicable.
<b>Flammable gases</b>	Not applicable.
<b>Aerosols</b>	Not applicable.
<b>Oxidising gases</b>	Not applicable.
<b>Gases under pressure</b>	Not applicable.
<b>Flammable liquids</b>	Highly flammable liquid and vapour.
<b>Flammable solids</b>	Not applicable.
<b>Self-reactive substances and mixtures</b>	Not applicable.
<b>Pyrophoric liquids</b>	Not applicable.
<b>Pyrophoric solids</b>	Not applicable.

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<b>Self-heating substances and mixtures</b>	Not applicable.
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Not applicable.
<b>Oxidising liquids</b>	Not applicable.
<b>Oxidising solids</b>	Not applicable.
<b>Organic peroxides</b>	Not applicable.
<b>Corrosive to metals</b>	Not applicable.
<b>Desensitised explosives</b>	Not applicable.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials** No further relevant information available.

**10.6 Hazardous decomposition products** No further relevant information available.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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

**LD/LC50 values:**

**67-63-0 Propan-2-ol**

Oral	LD50	5,840 mg/kg (Rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4h	30 mg/L (Rat)

**Serious eye damage/irritation:** Causes serious eye irritation.

**STOT-single exposure:** May cause drowsiness or dizziness.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

None of the ingredients are listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

**67-63-0 Propan-2-ol**

LC50/96h	9,640 mg/L (Fish)
NOEC	1,050 mg/L (Microorganisms)
LC50/24h	>10,000 mg/L (Daphnia)

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Additional environmental information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation:** Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:**

Disposal must be made in accordance with official regulations.  
Packaging that may not be cleansed must be disposed of in the same manner as the product.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

**NZS, IMDG, IATA** UN1219

**14.2 UN proper shipping name**

**IMDG, IATA** ISOPROPANOL (ISOPROPYL ALCOHOL) solution

**14.3 Transport hazard class(es)**

**NZS, IMDG, IATA**



**Class** 3 Flammable liquids.

**Label** 3

**14.4 Packing group**

**NZS, IMDG, IATA** II

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for user**

Warning: Flammable liquids.

**Hazard identification number (Kemler code):** 33

**EMS Number:** F-E,S-D

**Stowage Category** B

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Transport/Additional information:**

**NZS**

**Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**Tunnel restriction code:**

D/E

**IMDG**

**Limited quantities (LQ)** 1L

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Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**TSCA (Toxic Substances Control Act):**

All substances have the value ACTIVE.

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

All ingredients are listed.

**Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)**

All ingredients are listed.

**Australian Inventory of Chemical Substances (AICS)**

All ingredients are listed.

**New Zealand Inventory of Chemicals (NZIoC)**

All ingredients are listed.

**HSNO Approval numbers**

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**Japanese Existing and New Chemical Substances Inventory (ENCS)**

All substances have the value 2-207.

**Directive 2012/18/EU**
**Named dangerous substances - ANNEX I** None of the ingredients are listed.

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

**15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

### SECTION 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.

**Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3