# Safety Data Sheet

*According to OSHA HazCom Standard [2012]*

Printing date 05/03/2024 Version 1 Reviewed on 05/03/2024

## 1 Identification

### Product identifier

**Trade name:** Aquahol

**Product code(s):** IC-220

### 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

**Emergency telephone number:** CHEMTREC: +1 703-741-5970 (24h)

## 2 Hazard(s) identification

### Classification of the substance or mixture

| | |
|---|---|
| Flammable Liquids 2 | H225 Highly flammable liquid and vapor. |
| Eye Irritation 2A | H319 Causes serious eye irritation. |
| Specific Target Organ Toxicity - Single Exposure 3 | H336 May cause drowsiness or dizziness. |

### Label elements

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

**Hazard pictograms**

GHS02 GHS07

**Signal word** Danger

**Hazard-determining components of labeling:**
Propan-2-ol

**Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

**Precautionary statements:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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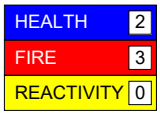
**Trade name:** Aquahol

### Classification system:
**NFPA ratings (scale 0 - 4)**


Health = 2
Fire = 3
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**




Health = 2
Fire = 3
Reactivity = 0

### Other hazards
**PBT:** Not applicable.
**vPvB:** Not applicable.

## 3 Composition/information on ingredients

**Description:** Mixture: consisting of the following components.

| **Hazardous Components:** | | |
|---|---|---|
| 67-63-0 | Propan-2-ol<br>Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 | ≥50-≤100% |

| **Information on components:** | | |
|---|---|---|
| 67-63-0 | Propan-2-ol<br>Flammable Liquids 2, H225; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336 | ≥50-≤100% |

## 4 First-aid measures

### Description of first aid measures

**After inhalation:** Move patient to fresh air, if symptom arise 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.

**After swallowing:**

**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

**Suitable extinguishing agents:** Carbon dioxide (CO2). Dry chemical. Foam.

**Special hazards arising from the substance or mixture** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Dilute with plenty of water.

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### Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Dispose contaminated material as waste according to section 13.

### 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: |
|---|
| All components have the value 400 ppm. |

| PAC-2: |
|---|
| All components have the value 2000* ppm. |

| PAC-3: |
|---|
| All components have the value 12000** ppm. |

## 7 Handling and storage

**Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

### 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 receptacle tightly sealed.

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

## 8 Exposure controls/personal protection

**Control parameters** No further information available

| Components with limit values that require monitoring at the workplace: | |
|---|---|
| **67-63-0 Propan-2-ol** | |
| PEL | Long-term value: 980 mg/m³, 400 ppm |
| REL | Short-term value: 1225 mg/m³, 500 ppm<br>Long-term value: 980 mg/m³, 400 ppm |
| TLV | Short-term value: 400 ppm<br>Long-term value: 200 ppm<br>BEI, A4 |

| Ingredients with biological limit values: | |
|---|---|
| **67-63-0 Propan-2-ol** | |
| BEI | 40 mg/L<br>Medium: urine<br>Time: end of shift at end of workweek<br>Parameter: Acetone (background, nonspecific) |

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

**Personal protective equipment**

**General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.

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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 use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Protective gloves

The glove material must 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.
Selection of the glove material on 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 has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

Goggles recommended during refilling.

**Body protection:** Protective work clothing

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

**General Information**

| | |
|---|---|
| **Appearance:** | |
| **Form:** | Liquid. |
| **Color:** | Colorless. |
| **Odor:** | Alcohol-like |
| **Odor threshold:** | Not determined. |
| **pH-value:** | 7 |
| **Melting point/Melting range:** | -90 °C (-130 °F) |
| **Boiling point/Boiling range:** | Not determined. |
| **Flash point:** | 18 °C (64.4 °F) |
| **Flammability (solid, gaseous):** | Not determined. |
| **Auto-ignition temperature:** | Not determined. |
| **Decomposition temperature:** | Not determined. |
| **Danger of explosion:** | Product does not present an explosion hazard. |
| **Flammability Limits:** | |
| **Lower:** | Not Determined. |

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| | |
|---|---|
| **Upper:** | Not Determined. |
| **Explosion limits:** | |
| **Lower:** | Not determined. |
| **Upper:** | Not determined. |
| **Oxidizing properties** | Not determined. |
| **Vapor pressure at 20 °C (68 °F):** | 41 hPa (30.8 mm Hg) |
| **Vapor pressure:** | |
| **Density at 20 °C (68 °F):** | 0.875 g/cm³ (7.30188 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/water):** | Not determined. |
| **Viscosity:** | |
| **Dynamic:** | Not determined. |
| **Kinematic:** | Not determined. |
| **VOC content:** | 50-75 % |
| **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 further relevant information available.

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

| **LD/LC50 values that are relevant for classification:** | | |
|---|---|---|
| **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) |

**Primary irritant effect:**
**on the eye:** Irritating effect.

**Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

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**Carcinogenic categories**

| **IARC (International Agency for Research on Cancer)** |
|---|
| All components have the value 3. |

| **NTP (National Toxicology Program)** |
|---|
| None of the ingredients are listed. |

| **OSHA-Ca (Occupational Safety & Health Administration)** |
|---|
| None of the ingredients are listed. |

## 12 Ecological information

### 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) |

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

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

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

### Additional ecological information

**General notes:**
Water hazard class 1 (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.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.
**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

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

### Uncleaned packagings:

**Recommendation:**
Disposal must be made according to official regulations.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
**Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

### UN-Number

| | |
|---|---|
| **DOT, ADR, IMDG, IATA** | UN1219 |

### UN proper shipping name

| | |
|---|---|
| **DOT** | Isopropanol solution |
| **ADR** | 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution |
| **IMDG, IATA** | ISOPROPANOL (ISOPROPYL ALCOHOL) solution |

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### Transport hazard class(es)

**DOT**


| | |
|---|---|
| **Class** | 3 Flammable liquids |
| **Label** | 3 |

**ADR, IMDG, IATA**


| | |
|---|---|
| **Class** | 3 Flammable liquids |
| **Label** | 3 |

### Packing group
**DOT, ADR, IMDG, IATA** II

### Environmental hazards:
Not applicable.

### Special precautions for user
Warning: Flammable liquids

| | |
|---|---|
| **Hazard identification number (Kemler code):** | 33 |
| **EMS Number:** | F-E,S-D |
| **Stowage Category** | B |

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

### Transport/Additional information:
**ADR**

| | |
|---|---|
| **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |

**IMDG**

| | |
|---|---|
| **Limited quantities (LQ)** | 1L |
| **Excepted quantities (EQ)** | Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |

## 15 Regulatory information

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

**Sara**

| **Section 355 (extremely hazardous substances):** |
|---|
| None of the ingredients are listed. |

| **Section 313 (Specific toxic chemical listings):** |
|---|
| All ingredients are listed. |

| **USA - TSCA (Toxic Substances Control Act):** |
|---|
| All components have the value ACTIVE. |

| **Hazardous Air Pollutants** |
|---|
| None of the ingredients are listed. |

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**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 are listed. |

| **Chemicals known to cause reproductive toxicity for males:** |
|---|
| None of the ingredients are listed. |

| **Chemicals known to cause developmental toxicity:** |
|---|
| None of the ingredients are listed. |

**Carcinogenic categories**

| **EPA (Environmental Protection Agency)** |
|---|
| None of the ingredients are listed. |

| **TLV (Threshold Limit Value)** |
|---|
| All components have the value A4. |

| **NIOSH-Ca (National Institute for Occupational Safety and Health)** |
|---|
| None of the ingredients are listed. |

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

GHS02 GHS07

**Signal word** Danger

**Hazard-determining components of labeling:**
Propan-2-ol
**Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
**Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
Call a poison center/doctor if you feel unwell.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

## 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.

**Contact:**
**Date of preparation / last revision** 05/03/2024

**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)

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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
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3