

**SAFETY DATA SHEET**  
**Aqueous Ozone (0.1 to 2.0 PPM)**

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
Trade name : ACQUA3 / AURORA AQUEOUS OZONE SOLUTION  
Common names / Synonyms: Aqueous Ozone, Ozone water, Ozone enriched water

**1.2. Relevant identified uses of the substance or mixture and uses advised**

Use of the substance/mixture : Surface cleaning, water purification.

**1.3. Details of the supplier of the safety data sheet**

Skypoint Hospitality and Technology Co., Ltd  
99/380 Moo 5 Soi Boonsamphan, NongPrue, Banglamung, Chonburi 20150 Thailand info@aq-o3.com

**1.4. Emergency telephone number**

Emergency number : +66620038353

**SECTION 2: Hazard(s) identification**

**2.1. Classification of the substance or mixture**

**GHS-US classification**

Not classified

**2.2. Label elements**

**GHS-US labelling**

No labelling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unkown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Name	Identifier	% present in any formulation #	Classification according to Regulation (EC) No 1278/2008 (CLP)
Water	Cas No: 7732-18-5 EC No: 231-791-2 REACH registration No: exempt	>99.9998%	Not classified
Ozone	Cas No: 10028-15-6 EC No: 233-069-2 REACH registration No: exempt, biocidal product	<0.0002%	Ox. Gas 1, H270 Acute Tox. 1, H330 Muta. 2, H341 Care. 2, H351 STOT SE 1, H370 STOT SE 3, H335 STOT RE 1, H372

NB: The percentage of ozone generated in the aqueous mixture does not require classification. This product does not generate ozone gas.

**3.2. Mixture**

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2019. Dissolved ozone gas in water 0.1 to 2.0ppm

**SECTION 4: First-aid measures**

**4.1. Description of first-aid measures**

**First-aid measures after inhalation:** Inhalation of aqueous ozone mist may lead to irritation of the lungs. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposure symptoms persist, seek medical advice.

**First-aid measures after skin contact:** Not known to cause irritation, but if skin irritation occurs, wash well with fresh water. If skin irritation persists, seek medical attention.

**First-aid measures after eye contact:** If eye irritation occurs with exposure to aqueous ozone, it is suggested to efficiently rinse eye with potable water for 5 minutes. Remove contact lenses, if present. Continue rinsing. If eye irritation persists: Get medical advice and attention.

**First-aid measures after ingestion:** No specific measures have to be taken if the product is swallowed. Liquid O3, LLC does not advise drinking its product's aqueous ozone solution, there are no known medical benefits.

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

Symptoms/injuries after inhalation : None under normal use. Inhalation of aqueous ozone mist may lead to irritation of the lungs.

: Mild irritation may occur if a person is exposed to gaseous ozone for an extended period-of-time.

Symptoms/Injuries after skin contact : None under normal use.

Symptoms/Injuries after eye contact : May cause minor eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None to our knowledge.

#### 5.2. Special hazards arising from the substance of mixture

Fire hazard : None known.

Explosion hazard : None known.

Reactivity : No dangerous reactions known under normal condition of use.

#### 5.3. Advice for firefighters

Firefighting instructions : No special requirements.

Protective equipment for firefighters : No additional risk management measures required.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Spilled material may present a slipping hazard.

##### 6.1.1 For non-emergency personnel

Protective equipment : For further information refer to section 8: Exposure-controls/personal protection.

##### 6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: Exposure-controls/personal protection.

#### 6.2. Environmental precautions

None known.

#### 6.3. Methods and material for containment and cleaning up

For containment : No additional risk management measures required. Methods for cleaning up : Allow the residual product to evaporate.

No special procedures required.

#### 6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection.

For disposal of residues refer to section 13: Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Aqueous ozone solution should not be sprayed as an aerosol to avoid the release of ozone gas out of aqueous solution.

: The decay rate of ozone gas is related to temperature and organic material exposure.

: Testing has proved that the rate of ozone gas released from aqueous solution is below the \*PEL established by OSHA for gaseous ozone.

: Avoid extended periods of use in confined areas without proper ventilation.

\*PEL: Permissible Exposure Limits.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special measures required.

Incompatible materials : Natural rubber components may degrade or dry-out over time.

: Examples include: Buna, Nitrile and Vinyl

### SECTION 8: Exposure control/personal protection

#### 8.1. Control parameters

## Ozone gas

Route of exposure	Workers				Consumers			
	Acute effect local	Acute effect systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effect systemic	Chronic effects local	Chronic effects systemic
inhalation	No hazard identified		0.024 mg/m <sup>3</sup>	No hazard identified	No hazard identified			
dermal	irritation	No hazard identified			No hazard identified			
eyes	medium hazard, no threshold identified			No hazard identified				

The PNEC for freshwater and marine water is 0.008 µg/L

### 8.2. Exposure controls/Control parameters

- Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures.  
Hand protection : No special hand protection is recommended under normal conditions of use.  
Eye protection : No special eye protection equipment recommended under normal conditions of use.  
Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical State : Liquid  
Color : Light blue , Colorless  
Odor : Fresh - No fragrance added  
Odor threshold : No data available  
pH : Same as source water - typically 6.0 - 9.0 pH  
Melting point : No data available  
Freezing point : No data available  
Boiling point : 100 C (212 F)
- Flash point : No data available  
Relative evaporation rate : ≈ 1  
Flammability (solid, gas) : No data available  
Explosive limits : No data available  
Oxidizing properties : Strong oxidizing properties towards certain materials. Vapor pressure : 2.3 kPa (20C)  
Relative density : No data available  
Relative vapor density : 0.62  
Density : 1  
Solubility : Water, completely soluble  
Log Pow : No data available  
Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known

### 10.4. Conditions to avoid

None under normal conditions.

### 10.5. Incompatible materials

Natural rubber components may degrade or dry out over time with extended use.

### 10.6. Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Ingestion; Inhalation; Skin and eyes contact
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exp.)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: None under normal use. Inhalation of aqueous ozone mist may lead to irritation of the lungs.
	: Mild irritation may occur if a person is exposed to gaseous ozone for an extended period of time.
Symptoms/injuries after skin contact	: None under normal use.
Symptoms/injuries after eye contact	: May cause minor eye irritation.
Symptoms/injuries after ingestion	: Not known or expected to be harmful to health in normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available.

### 12.2. Persistence and degradability

No additional information available.

### 12.3. Bio accumulative potential

No additional information available.

### 12.4. Mobility in soil

No additional information available.

### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations: May be disposed of in household waste landfill.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

### TDG

Not regulated for transport

### Transport by sea

Not regulated for transport

### Air transport

Not regulated for transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

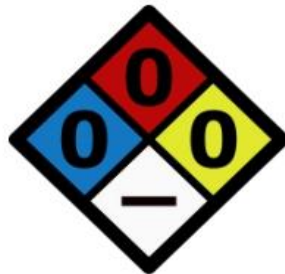
## SECTION 16: Other information

Date of latest revision : February 4th 2022  
Sources of key data : Data arise from reference works and literature.

**NFPA health hazard** : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**NFPA fire hazard** : 0 - Materials that will not burn.

**NFPA reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2019)

*This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*