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Date Revision: 2 April 2020  
Revision: 0  
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### Section 1: Substance/preparation and manufacturer/supplier identification

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**Product Identifier:** Aqueous Ozone

**Relevant Use:**

This SDS is limited to aqueous ozone produced by an ozone generator, in aqueous solution, for the purposes of antimicrobial, pathogen and viral disinfection of surfaces and other water treatment applications using ozonated water.

**Manufacturer/supplier**

Grenof Pty Ltd

ABN: 17166936894

**Physical Address:** Unit 3 / 38 Technology Drive Warana QLD 4575

**Postal:** GPO Box 1936, Brisbane QLD 4001

**Head Office:** 1300 002 889 (Specialist Advice)

**Email:** [admin@grenof.com](mailto:admin@grenof.com)

**Product Name:** Aqueous Ozone

**Chemical Name:** Ozone dissolved in water

**Emergency Information**

Poison Information Centre (Australia): 131 126

National Poisons Centre (New Zealand): 0800 POISON (0800 764 766)

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### Section 2: Hazard Identification

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**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

The product is not classified, according to the Globally Harmonised System (GHS).

**Signal Word** None

**Hazard Statements** None  
**Precautionary Statements** None

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### Section 3: Composition of substance

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**Chemical Characterization:** Mixtures

**Description:** No reportable hazardous substances or complex substances.

**Hazardous Components:** None

**Additional information:** This product contains <0.1% ozone (O<sub>3</sub>) dissolved in water.

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### Section 4: First-Aid Measures

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**Inhalation:** No special medical treatment is required. Seek medical attention if breathing problems develop.

**Skin Contact:** No special medical treatment is required. Seek medical attention if symptoms occur.

**Eye Contact:** No special medical treatment is required. Seek medical attention if symptoms occur.

**Ingestion:** No special medical treatment is required. Seek medical attention if symptoms occur.

**Symptoms Caused by Exposure:** Expected to be a low ingestion hazard.

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### Section 5: Firefighting Measures

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**Suitable Extinguishing Media:** Not Applicable

**Specific Hazards Arising from the Chemical:**  
Not a fire hazard. The product itself does not burn.

**Special Protective Equipment and Precautions for Fire Fighters:** Not Applicable

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## Section 6: Accidental release measures

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### **Personal Precautions, Protective Equipment and Emergency Procedures:**

No special precautions are necessary beyond normal good hygiene practices.

**Environmental Precautions:** None necessary.

### **Methods and Materials for Containment and Cleaning Up:**

Stop source of leak if possible.

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## Section 7: Handling and storage

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### **Precautions for Safe Handling:**

No special precautions are necessary beyond normal good hygiene practices. Use only as directed.

**Conditions for Safe Storage:** Store in a cool, dry and well-ventilated area. Store in original container.

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## Section 8: Exposure controls

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### **Exposure Standards:**

**CAS: 10028-15-6 Ozone (0.1% solution in water)**

NES Peak limitation: 0.2 g/m<sup>3</sup>, 100 ppm

### **Engineering Controls:**

Local exhaust ventilation is not normally required. Natural ventilation should be adequate under normal use conditions.

**Respiratory Protection:** Respiratory protection is not required under normal use conditions.

**Skin Protection:** Skin protection is not required under normal use conditions.

**Eye and Face Protection:** Eye protection is not required under normal use conditions.

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## Section 9: Physical and chemical properties

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### **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear colourless.
<b>Odour:</b>	Odourless.
<b>Odour Threshold:</b>	Odourless.
<b>pH-Value:</b>	5 - 7 (1% solution)

<b>Melting point/freezing point:</b>	0 °C
<b>Initial Boiling Point/Boiling Range:</b>	100 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not applicable
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure at 20 °C:</b>	2.3 kPa
<b>Relative Density:</b>	1
<b>Vapour Density at 20 °C:</b>	0.62
<b>Evaporation Rate:</b>	Not determined.
<b>Solubility in Water:</b>	No information available
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

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## Section 10: Stability and Reactivity

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**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** No hazardous decomposition products known.

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## Section 11: Toxicological Information

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**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**CAS: 10028-15-6 Ozone (0.1% solution in water)**

Inhalation LC<sub>50</sub> 12.6 mg / 3 hours (mice)

**Acute Health Effects**

**Inhalation:** No adverse health effects expected.

**Skin:** No adverse health effects expected.

**Eye:** No adverse health effects expected.

**Ingestion:** Expected to be a low ingestion hazard.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**  
Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**  
Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:** No information available

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## SECTION 12: Ecological information

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**Ecotoxicity:** No adverse ecological effects are expected.

**Aquatic toxicity:**

**CAS: 10028-15-6 Ozone (0.1% solution in water)**

LC<sub>50</sub>/96h 0.008-0.011 g/l (rainbow trout)

**Persistence and Degradability:** Not applicable

**Bioaccumulative Potential:** Not applicable

**Mobility in Soil:** Not applicable

**Other adverse effects:** Not applicable

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## **SECTION 13: Disposal considerations**

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### **Disposal Methods and Containers:**

This product should be treated the same as water. Cleaned containers are recyclable. Always dispose of according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:** None

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## **SECTION 14: Transport information**

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**UN Number:** Not regulated

**Proper Shipping Name:** Not regulated

**Dangerous Goods Class:** Not regulated

**Packing Group:** Not regulated

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## **SECTION 15: Regulatory information**

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### **Australian Inventory of Chemical Substances:**

CAS: 7732-18-5 Water

CAS: 10028-15-6 Ozone

### **Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

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## **SECTION 16: Other information**

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### **Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants)

## **Further information**

This sheet was updated (refer to the date at the bottom of this page).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring they are in conformity with all regulations linked to its activity.