

SAFETY DATA SHEET

1. Product and Company Identification

Product name	Ozonated Water
Common Names/Synonyms	Aqueous Ozone, Dissolved Ozone, Liquid Ozone
Recommended use	Not available.
Recommended restrictions	None known.
Ozonated Water Generator Manufacturer	
Responsible Party	Zero Many
Address	4540 W160th St Cleveland, Ohio USA
Telephone	833-550-0909
Website	www.ZeroMany.com
E-mail	admin@ZeroMany.com

2. Hazards Identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Not applicable.
Storage	Not applicable.
Disposal	No special precautions required.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	>99.99
Ozone		10028-15-6	<0.01

4. First Aid Measures

Inhalation	Not applicable.
Skin contact	Not applicable.
Eye contact	Not applicable.
Ingestion	Not applicable.
Most important symptoms/effects, acute and delayed	This material is not expected to be harmful.

Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media	Not applicable, non-combustible.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not a fire hazard. The product itself does not burn.
Special protective equipment and precautions for firefighters	None (non-combustible).
Fire-fighting equipment/instructions	Not applicable.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Not a fire hazard.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product.
Methods and materials for containment and cleaning up	Stop source of leak if possible. Wipe or mop up liquid, if any, and dispose properly.
Environmental precautions	None necessary.

7. Handling and Storage

Precautions for safe handling	None necessary.
Conditions for safe storage, including any incompatibilities	Not applicable.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ozone (CAS 10028-15-6)	PEL	0.2 mg/m ³ 0.1 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Ozone (CAS 10028-15-6)	TWA	0.05 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ozone (CAS 10028-15-6)	Ceiling	0.2 mg/m ³ 0.1 ppm

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	See above
Appropriate engineering controls	None known.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Not normally needed. Follow standard industrial hygiene practices.
Skin protection	
Hand protection	Not normally needed. Follow standard industrial hygiene practices.
Other protection	As required by employer code.
Respiratory protection	Not normally required.
Thermal hazards	None known.
General hygiene considerations	General industrial hygiene practice.

9. Physical and Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Odorless
Odor threshold	Not available.
pH	7
Melting point/freezing point	32 °F (0 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Pour point	Not available.
Specific gravity	1
Partition coefficient (n-octanol/water)	Not available.
Flash point	none
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	not applicable
Flammability limit – upper (%)	not applicable
Explosive limit - lower (%)	Not available.
Explosive limit - lower (%) temperature	Not applicable
Explosive limit - upper (%)	Not available.
Explosive limit - upper (%) temperature	Not applicable
Vapor pressure	2.3 kPa (@ 20°C)
Vapor density	0.62 (Air = 1)
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity	Not available.
Other information	
Density	1.00 g/cm ³
Molecular formula	H ₂ O + O ₃
Molecular weight	18.02 g/mol

10. Stability and Reactivity

Reactivity	None known.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Highly unstable, readily react and spontaneously decomposes.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological Information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics There are no hazards associated with this product in normal use.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Ozone (CAS 10028-15-6)		
Acute		
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Water (CAS 7732-18-5)		
LC50		
<i>Inhalation</i>		
LC50	Not available	
LD50		
<i>Oral</i>	Rat	5000 mg/kg

Skin corrosion/irritation Not expected to be a primary skin irritant.

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye irritation No adverse effects due to eye contact are expected.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening value Not available.

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Chronic effects Not available.

Further information This product has no known adverse effect on human health.

12. Ecological Information

Persistence	Not applicable.
Bioaccumulative potential	Not applicable.
Mobility in soil	Not applicable.
Mobility in general	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions	Same as water.
Local disposal regulations	Not regulated.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Not regulated.
Contaminated packaging	Not applicable.

14. Transport Information

U.S. Department of Transportation (DOT)
Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Ozone (CAS 10028-15-6) 100 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Hazardous Substances (Director's): Listed substance

Ozone (CAS 10028-15-6) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Ozone (CAS 10028-15-6) Listed.

US - Minnesota Haz Subs: Listed substance

Ozone (CAS 10028-15-6) Listed.

US - New Jersey RTK - Substances: Listed substance

Ozone (CAS 10028-15-6) Listed.

US - New York Release Reporting: Acutely Hazardous Substances: Listed substance

Ozone (CAS 10028-15-6) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Ozone (CAS 10028-15-6) Listed.

US. Massachusetts RTK - Substance List

Ozone (CAS 10028-15-6) Listed.

US. Pennsylvania RTK - Hazardous Substances

Ozone (CAS 10028-15-6) Listed.

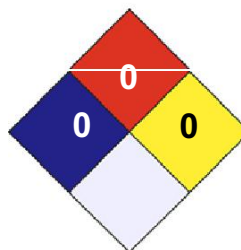
US. Rhode Island RTK

Ozone (CAS 10028-15-6) Listed.

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	x



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Further information

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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