

## 1. Product and Company Identification

<b>Product identifier</b>	<b>lotus® PRO</b>
<b>Other means of identification</b>	Ozonated Water
<b>Recommended use</b>	Not available.
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	
<b>Company name</b>	Tersano Inc.
<b>Address</b>	5000 Regal Drive Oldcastle, ON N0R 1A0 Canada
<b>Telephone</b>	1-800-808-1723 (Toll-Free)
<b>Website</b>	www.tersano.com
<b>E-mail</b>	wecare@tersano.com
<b>Emergency phone number</b>	1-800-808-1723 (Toll-Free)

## 2. Hazards Identification

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

## 3. Composition/Information on Ingredients

### Mixtures

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

## 4. First Aid Measures

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

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

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### 5. Fire Fighting Measures

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

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### 6. Accidental Release Measures

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<b>Personal precautions, protective equipment and emergency procedures</b>	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.
<b>Methods and materials for containment and cleaning up</b>	Stop source of leak if possible. Wipe or mop up liquid, if any, and dispose properly.
<b>Environmental precautions</b>	None necessary.

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### 7. Handling and Storage

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<b>Precautions for safe handling</b>	Use according to package label instructions.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container.

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### 8. Exposure Controls/Personal Protection

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#### 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/m3
		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/m3
		0.1 ppm

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

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Colorless
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available.
<b>pH</b>	5 - 7* (lifetime average)(1% Solution)
<b>Melting point/freezing point</b>	32 °F (0 °C)
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	1
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	none
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	not applicable
<b>Flammability limit - upper (%)</b>	not applicable
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - lower (%) temperature</b>	Not applicable
<b>Explosive limit - upper (%)</b>	Not available.
<b>Explosive limit - upper (%) temperature</b>	Not applicable
<b>Vapor pressure</b>	2.3 kPa (@ 20°C)
<b>Vapor density</b>	0.62 (Air = 1)
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	1.00 g/cm <sup>3</sup>
<b>Molecular formula</b>	H <sub>2</sub> O + O <sub>3</sub>
<b>Molecular weight</b>	18.02 g/mol

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## 10. Stability and Reactivity

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<b>Reactivity</b>	None known.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

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## 11. Toxicological Information

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### Information on likely routes of exposure

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

<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Health injuries are not known or expected under normal use.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	There are no hazards associated with this product in normal use.

**Information on toxicological effects**

**Acute toxicity**

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Ozone (CAS 10028-15-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Water (CAS 7732-18-5)		
<b>LC50</b>		
<i>Inhalation</i>		
LC50	Not available	
<b>LD50</b>		
<i>Oral</i>	Rat	14500 mg/kg

<b>Skin corrosion/irritation</b>	Not expected to be a primary skin irritant.
<b>Exposure minutes</b>	Not available.
<b>Erythema value</b>	Not available.
<b>Oedema value</b>	Not available.
<b>Serious eye damage/eye irritation</b>	No adverse effects due to eye contact are expected.
<b>Corneal opacity value</b>	Not available.
<b>Iris lesion value</b>	Not available.
<b>Conjunctival reddening value</b>	Not available.
<b>Conjunctival oedema value</b>	Not available.
<b>Recover days</b>	Not available.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, NTP, or OSHA.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	
	Not listed.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Chronic effects</b>	Not available.
<b>Further information</b>	This product has no known adverse effect on human health.

**12. Ecological Information**

<b>Ecotoxicity</b>	See below
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Components	Species	Test Results
Ozone (CAS 10028-15-6)		
<b>Aquatic</b>		
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.008 - 0.011 mg/l, 96 hours

**Persistence and degradability** 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** See above  
**Hazardous waste code** Not regulated.  
**Waste from residues / unused products** Not regulated.  
**Contaminated packaging** Cleaned containers may be recycled.

### 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.

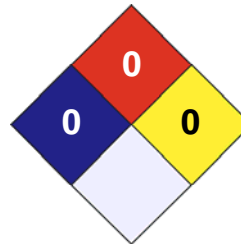
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**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.

**Issue date**

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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).

**Prepared by**

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