

1. Product and Company Identification

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

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	Use according to package label instructions.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container.

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/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

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	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	5 - 7* (lifetime average)(1% Solution)
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	Material is stable under normal conditions.
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	14500 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

Ecotoxicity	See below
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Components	Species	Test Results
Ozone (CAS 10028-15-6)		
Aquatic		
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.

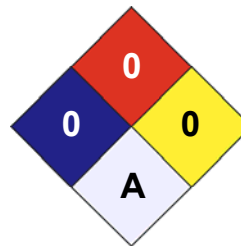
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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	A



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).

Prepared by

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