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## Section 01 - Identification

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<b>Product Identifier</b>	Pristine H2OK Water Cooler Cleaner
<b>Other Means of Identification</b>	Not available
<b>Product Use and Restrictions on Use</b>	Internal surface sanitizer.
<b>Initial Supplier Identifier</b>	Advance Chemicals Ltd. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
<b>24-Hour Emergency Phone</b>	Phone: 1 (306) 664 – 2522

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## Section 02 - Hazard Identification

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### GHS-Classification

**Serious Eye Damage/Eye Irritation**      Category 2

### Physical Hazards

No known physical hazards.

### **Warning**

### **Hazard Statements**

H319 – Causes serious eye irritation.

### **Pictograms**



## Precautionary Statements

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Hydrogen Peroxide	7722-84-1	< 8%	
Water	7732-18-5	>92%	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	If symptoms are experienced, remove victim to fresh air. Seek medical attention if you feel unwell or concerned.
<b>Skin Contact / Absorption</b>	Rinse skin with lukewarm, gently flowing water for 30 minutes. If skin irritation occurs, seek medical attention. Completely decontaminate clothing, shoes and leather goods before re-use or discard.
<b>Eye Contact</b>	Flush eye(s) with lukewarm, gently flowing water for 30 minutes, while forcibly holding the eyelid(s) open to ensure complete irrigation of the eye tissue. Remove contact lenses if present and easy to do so. If irritation persists, seek medical attention.
<b>Ingestion</b>	Rinse mouth. If you feel unwell or are concerned, seek medical attention.
<b>Additional Information</b>	Not Available

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Use extinguishing agent suitable for surrounding fire. Use large quantities of water as a fog to fight fires in which this material is involved.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Closed containers may rupture violently due to rapid decomposition if exposed to fire or excessive heat for a sufficient period of time, or if contaminated with certain metals or dirt. Large amounts of oxygen gas may be released to form an oxygen-rich atmosphere. No part of the container should be exposed to temperatures greater than 49°C (120°F).
<b>Special Protective Equipment for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Hydrogen peroxide solutions that are less than 8% are very weak oxidizing agents.

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
<b>Environmental Precautions</b>	Prevent product from entering sewers, waterways or confined spaces.
<b>Methods and Materials for Containment and Cleaning Up</b>	SMALL SPILLS: Flush area with water. LARGE SPILLS: Dike with earth, sand or inert sorbent material to contain spill. Remove liquid with compatible pumps or vacuum equipment. Place in suitable, covered, labelled, vented containers. Flush area with excess water.

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## Section 07 - Handling and Storage

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<b>Precautions for Safe Handling</b>	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
<b>Conditions for Safe Storage</b>	Store in a cool area, out of direct sunlight and away from heat sources. Store away from incompatible materials.
<b>Incompatibilities</b>	Reducing agents, including organic matter and oxidizable substances, alkalis, iodides and other stronger oxidizing agents.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Hydrogen Peroxide	ACGIH	TWA	1ppm
	OSHA	PEL-T-TWA	1ppm

### Engineering Control(s)

**Ventilation Requirements** Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

**Other** Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### Protective Equipment

**Eyes/Face** Chemical safety goggles should be worn while product is being handled. Contact lenses should not be worn while product is being handled as it may contribute to severe eye damage.

**Hand Protection** No specific requirement, but it is good practice to prevent skin contact.

**Skin and Body Protection** No specific requirement, but it is good practice to prevent skin contact.  
No special footwear is required other than what is mandated at place of work.

**Respiratory Protection** NIOSH RECOMMENDATIONS FOR HYDROGEN PEROXIDE CONCENTRATIONS IN AIR:  
UP TO 10ppm: (APF=10) Any supplied-air respirator.  
UP TO 25ppm: (APF=25) Any supplied-air respirator operated in a continuous-flow mode.  
UP TO 50ppm: (APF=50) Any self-contained breathing apparatus with a full facepiece; OR any supplied-air respirator with a full facepiece.  
UP TO 75ppm: (APF=2000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.  
  
EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATIONS OR IDLH CONDITIONS: (APF=10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode; OR any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus.

**Thermal Hazards** Not Available

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## Section 09 - Physical and Chemical Properties

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## Appearance

Physical State	Liquid
Colour	Clear, colourless
Odour	Odourless
Odour Threshold	Not Applicable

## Property

pH	3.3 (1% solution)
Melting Point/Freezing Point	Not Available
Initial Boiling Point and Boiling Range	Not Available
Flash Point	Not Applicable
Evaporation Rate	Not Available
Flammability	Non-Flammable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Available
Vapour Density (Air=1)	1.17
Relative Density	Not Available
Solubility(ies)	Soluble in water. Soluble in may polar solvents; insoluble in petroleum ether.
Partition Coefficient: n-octanol/water	Log P <sub>ow</sub> = - 0.70-1.33; -1.57 (estimated)
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	150-152°C (Pure Hydrogen Peroxide)
Viscosity	~ 1 mPa·s
Explosive Properties	Not Available
Specific Gravity (Water=1)	1.02
% Volatiles by Volume	Not Available
Formula	H <sub>2</sub> O <sub>2</sub>
Molecular Weight	34.02

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## **Section 10 - Stability and Reactivity**

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Reactivity	Hydrogen peroxide solutions decompose when heated, on contact with rough surfaces or due to contaminants, giving off oxygen.
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<b>Stability</b>	Solution free of contamination are relatively stable. Alkaline solutions are less stable than acidic ones. Can decompose in sunlight. Can liberate oxygen, water and heat.
<b>Possibility of Hazardous Reactions</b>	None known.
<b>Conditions to Avoid</b>	Temperatures above 100°C, depletion of stabilizers, pH greater than 4.5.
<b>Incompatible Materials</b>	Reducing agents, including organic matter and oxidizable substances, alkalies, iodides and other stronger oxidizing agents.
<b>Hazardous Decomposition Products</b>	Molecular oxygen.

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## Section 11 - Toxicological Information

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### Acute Toxicity Estimate

Component	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Pristine H2OK Water Cooler Cleaner	16 g/kg (rat, female)	>40 g/kg (rabbit)	> 3.4 mg/L (rat, 4hr)

This product has been classified in accordance with the Hazardous Products Regulations using ATE formula documented in the GHS standard.

### Chronic Toxicity – Carcinogenicity

Component	IARC
Hydrogen Peroxide	Group 3: Not classifiable as to its carcinogenicity to humans.

<b>Skin Corrosion/Irritation</b>	Non-irritant. Whitening or bleaching of the skin has been observed.
<b>Serious Eye Damage/Irritation</b>	Solutions of 5% are acutely irritating, with no known chronic affects.
<b>Ingestion</b>	Ingestion is unlikely to result in harmful effects, vomiting and nausea are expected when consumed in large quantities. With small quantities minor mouth and esophogas irritation is expected. There are no known long term or delayed effects.
<b>Inhalation</b>	Not Available for solutions of low concentration.
<b>Respiratory or Skin Sensitization</b>	Not known to be a skin or respiratory sensitizer.
<b>Germ Cell Mutagenicity</b>	The information located is insufficient to conclude that hydrogen peroxide is a mutagen.
<b>Reproductive Toxicity</b>	Hydrogen peroxide is not known to cause reproductive toxicity.
<b>STOT-Single Exposure</b>	May cause respiratory tract irritation.
<b>STOT-Repeated Exposure</b>	Not Available
<b>Aspiration Hazard</b>	Not Available
<b>Synergistic Materials</b>	Increased airways resistance was observed in volunteers exposed to hydrogen peroxide and sulfur dioxide aerosols at the same time. An animal study has shown that concurrent inhalation exposure to fine particulates and hydrogen peroxide can increase the toxicity of both to the lungs. Exposure to hydrogen peroxide also increased the toxicity of ozone in animals.

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## Section 12 - Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Hydrogen Peroxide	NOEC(Skeletonema costatum, 72hr): 0.63mg/L	LC <sub>50</sub> (Pimephales promelas, 96hr):16.4mg/L	LC <sub>50</sub> (Daphnia pulex, 48hr): 2.4mg/L

<b>Biodegradability</b>	Readily biodegradable
<b>Bioaccumulation</b>	None. Hydrogen peroxide quickly decomposes to oxygen and water.
<b>Mobility</b>	Not Available
<b>Other Adverse Effects</b>	Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. H <sub>2</sub> O <sub>2</sub> half life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hours and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

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## Section 13 - Disposal Considerations

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<b>Waste From Residues/Unused Products</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
<b>Contaminated Packaging</b>	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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## Section 14 - Transport Information

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<b>UN Number</b>	Not Regulated
<b>UN Proper Shipping Name</b>	Not Regulated
<b>Transport Hazard Class(es)</b>	Not Regulated
<b>Packaging Group</b>	Not Regulated
<b>Environmental Hazards</b>	Not listed as a marine pollutant under Canadian TDG Regulations
<b>Special Precautions</b>	Not Available
<b>Transport in Bulk</b>	Not Available

### TDG

<b>Other</b>	Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.
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**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

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## Section 15 - Regulatory Information

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**NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

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## Section 16 - Other Information

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<b>Preparation Date</b>	November 16, 2015
<b>Revision Date</b>	January 23, 2019

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct

employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

**Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

**References:**

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA