



**Advance
Chemicals Ltd.**

Safety Data Sheet

Section 01 - Identification

Product Identifier	Pristine Water Purification Tabs
Other Means of Identification	None
Product Use and Restrictions on Use	Pristine Tabs are used for the disinfection of drinking water for human consumption
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Department Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522 Alternative Phone: 1 (800) 387-7503

Section 02 - Hazard Identification

GHS-Classification

Acute Toxicity-Oral	Category 4
Serious Eye Damage/Eye Irritation	Category 2
STOT-Single Exposure	Category 3
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

Pictograms



Physical Hazards

No known physical hazards.

Signal Word WARNING**Hazard Statement**

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H410 - Very toxic to aquatic life with long lasting effects

EUH031- Contact with acids liberates toxic gas

Precautionary Statements

P261 - Avoid breathing dust/fumes

P271 – Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 -Wear protective gloves/ eye 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 attention

P312 - Call a POISON CENTER or doctor if you feel unwell

P391 - Collect spillage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 – Store locked up

P501 - Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
sodium dichloroisocyanurate	2893-78-9	3 – 7	Not Available
citric acid	77-92-9	10 – 30	Not Available
sodium bicarbonate	144-55-8	60 - 100	Not Available

Section 04 - First Aid Measures**Inhalation**

Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if difficulty in breathing persists.

Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
Ingestion	If swallowed do not induce vomiting. Give large quantities of water. (If available give several glasses of milk) If vomiting occurs spontaneously keep airway clear and give more water. Get medical attention if there are signs of discomfort or ill health.
Additional Information	Not Available

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Do not attempt to extinguish the fire without a self-contained breathing apparatus. Do not let the fire burn. Flood with copious amounts of water.
Unsuitable Extinguishing Media	Do not use dry chemicals, carbon dioxide or halogenated extinguishers since there is potential for a violent reaction.
Specific Hazards Arising From the Chemical	Toxic gases and fumes may form in a fire.
Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters should wear full protective clothing and a self contained breathing apparatus. Using a 10% solution of sodium carbonate, thoroughly decontaminate fire-fighting equipment including all fire fighting wearing apparel after the incident
Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Avoid contact with skin and eyes. Wear chemical safety goggles and chemical resistant gloves. Handle product in a well-ventilated area.
Environmental Precautions	Do not release into the environment. Prevent flow of material into water source and begin monitoring available chlorine and pH immediately. Notify all downstream users of possible contamination.
Methods and Materials for Containment and Cleaning Up	Contain spilled material. Any spillage should be cleaned up as soon as possible. Do not add water to spilled material. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean, dry containers for disposal. Do not close drums containing wet or damp material. Do not transport wet or damp material.

Section 07 - Handling and Storage

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid breathing airborne particulates; wear respiratory protection when exposure is possible. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Wash contaminated clothing before use. Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product.

Conditions for Safe Storage

Store in original container and in a cool dry area where temperatures do not exceed 25°C. Keep container tightly closed and store away from incompatible materials. Do not allow water to get into the container. Keep out of reach of children.

Section 08 - Exposure Controls / Personal Protection

Exposure Limit(s)

Component

Regulation

Type of Listing

Value

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 goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Hand Protection

Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection

Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times.

Respiratory Protection

If airborne concentrations are high, use NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions

Thermal Hazards	None known
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Section 09 - Physical and Chemical Properties

Appearance

Physical State	Pressed solid
Colour	White to off-white
Odour	Slight odour of chlorine
Odour Threshold	Not Available

Property

pH	Not Available (solid)
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)	Not Available
Bulk Density	Not Available
Solubility(ies)	Soluble in water
Partition Coefficient: n-octanol/water	Not Available
Auto-ignition Temperature	Not Applicable
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	None
Specific Gravity (Water=1)	Not Available
% Volatiles by Volume	None
Formula	Mixture
Molecular Weight	Not Applicable

Section 10 - Stability and Reactivity

Reactivity	The active ingredient in this preparation is a strong oxidising agent.
Chemical Stability	Stable

Possibility of Hazardous Reactions	Hazardous Polymerisation will not occur
Conditions to Avoid	The preparation of concentrated solutions or slurries is not recommended.
Incompatible Materials	Avoid contact with strong acids and/or alkalines. Reducing agents. Combustible material. Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidisable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.
Hazardous Decomposition Products	Thermal decomposition or combustion products: chlorine, nitrogen, nitrogen trichloride, cyanogens chloride, oxides of carbon, phosgene.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
sodium dichloroisocyanurate	1420 mg/kg (rat)	Not Available	Not Available
citric acid	5040 mg/kg (mouse) 3000 mg/kg (rat)	Not Available	Not Available
sodium bicarbonate	Not Available	Not Available	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
sodium dichloroisocyanurate	Group 3: Not carcinogenic to humans.
citric acid	Group 3: Not carcinogenic to humans.
sodium bicarbonate	Group 3: Not carcinogenic to humans.

Skin Corrosion/Irritation	Moderate irritant
Ingestion	This is moderately toxic by ingestion.
Inhalation	Sodium Dichloroisocyanurate is irritating to the respiratory system.
Serious Eye Damage/Irritation	Irritating to eyes
Respiratory or Skin Sensitization	Not classified as irritating to the skin. Not a potential sensitizer.
Germ Cell Mutagenicity	Not Available
Reproductive Toxicity	Not Available
STOT-Single Exposure	Not Available
STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Biodegradability	The free available chlorine from Sodium dichloroisocyanurate is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. Sodium Dichloroisocyanurate is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.		
Bioaccumulation	Trichloroisocyanuric acid hydrolyses in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.		
Mobility	No Data		
Other Adverse Effects	This preparation is likely to be highly toxic to aquatic life.		

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations Schedule 1, Column 10.
Transport in Bulk	Not Available
Special Precautions	Not Available

TDG

Other	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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Section 15 - Regulatory Information

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.

Section 16 - Other Information

Preparation Date 2017 February 2

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[®] 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 or technical service department.

References

- 1) Safety Data Sheet. (Revised: 2014). Retrieved from <http://msds.orica.com/pdf/shess-en-cds-010-000031019501.pdf> on 2017 February 2.
- 2) Safety Data Sheet. (Revised: 2015). Retrieved from https://beta-static.fishersci.com/content/dam/fishersci/en_US/documents/programs/education/regulatory-documents/sds/chemicals/chemicals-c/S25255.pdf on 2017 February 2.
- 3) Safety Data Sheet. (Revised: 2013). Retrieved from <https://www.sciencelab.com/msds.php?msdsId=9927258> on 2017 February 2.
- 4) Safety Data Sheet. (Revised: 2015). Retrieved from <http://www.proforceequipment.com/pdf/390/Aquatabs-SafetyDataSheet.pdf> on 2017 February 2.
- 5) CCRIS
- 6) CPDP

ClearTech Industries Inc. - Locations

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Location	Address	Postal Code	Phone Number
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	1(800)387-7503
Port Coquitlam, B.C.	223 Kingsway Avenue	V3C 1S9	1(800)387-7503
Calgary, AB.	5516E - 40 th St. S.E.	T2C 2A1	1(800)387-7503
Edmonton, AB.	12020 - 142 nd Street	T5L 2G8	1(800)387-7503

Saskatoon, SK.	North Corman Industrial Park	S7K 1V7	1(800)387-7503
Regina, SK.	555 Henderson Drive	S42 5X2	1(800)387-7503
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	1(800)387-7503
Mississauga, ON.	355 Admiral Blvd Unit #1	L5T 2N1	1(800)387-7503

24 Hour Emergency Number - All Locations – 1(306) 664-2522
Alternative - 1(800) 387-7503

End of Safety Data Sheet
