

Pristine PRO

Liquid Sanitizer

ACTIVE INGREDIENT:	
Sodium Hypochlorite.....	8.4%
OTHER INGREDIENTS:	91.6%
TOTAL:	100.0%

(provides a minimum available chlorine of 8%)

KEEP OUT OF REACH OF CHILDREN DANGER

FOR INDUSTRIAL USE PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE: Causes severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear rubber gloves, chemical goggles and protective clothing. Wash after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

This product may be patented: www.ecolab.com/patents

Ecolab Inc. · 1 Ecolab Place · St. Paul, MN 55102 USA

768155/5301/1017A

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

FOR EMERGENCY MEDICAL INFORMATION, CALL TOLL-FREE 1-800-328-0026. OUTSIDE NORTH AMERICA, CALL 1-651-222-5352.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PHYSICAL AND CHEMICAL HAZARDS: Strong Oxidizing Agent: Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

Pristine PRO

Liquid Sanitizer

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine. Since chlorine reacts readily with dirt and organic matter in dip tanks, the concentration must be checked at least three to four times each day by use of colorimetric kit or titrimetric kit. Once opened, use the entire contents of the container within 30 days.

SANITIZING NONPOROUS FOOD CONTACT EQUIPMENT: A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to insure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2 oz. of Pristine PRO with in 13 gal. of water. If no test kit is available prepare a sanitizing solution by mixing 4 oz. of Pristine PRO with in 13 gal. of water to provide approximately 200 ppm available chlorine by weight.

At 100 ppm available chlorine, this product is an effective sanitizer against *Vibrio cholera*, *Escherichia coli* 0157:H7, *Listeria monocytogenes*, *Salmonella typhi* and *Staphylococcus aureus*. Just prior to use, clean all surfaces with proper detergent and rinse with water. Rinse all surfaces thoroughly with the sanitizing solution maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Allow equipment to drain thoroughly. Do not rinse and do not soak overnight.

DO NOT MIX WITH ANYTHING BUT WATER

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STORAGE & DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Keep this product in a tightly closed container, when not in use. In case of spill, flood area with large quantities of water. Product or rinsate that cannot be used must be diluted with water before disposal in a sanitary sewer.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING AND DISPOSAL: For containers 5 gal. or less. Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after-the-flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Then offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration. For containers >5-55 gal. Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty remaining contents, into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat procedure two more times. Then offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

EPA Reg. No. 1677-2

768155/5301/1017B



Pristine PRO

Liquid Sanitizer

For Use Only With the Ecolab Quadexx™ / Quadexx™ PRO Dispensing System

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OTHER INGREDIENTS:..... 91.6%

TOTAL:..... 100.0%

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DANGER**

FOR INDUSTRIAL USE PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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PHYSICAL AND CHEMICAL HAZARDS:

Strong oxidizing agent: Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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PESTICIDE STORAGE: Store this product in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Keep this product in a tightly closed container, when not in use. In case of spill, flood area with large quantities of water. Product or rinsate that cannot be used must be diluted with water before disposal in a sanitary sewer.

This product may be patented: www.ecolab.com/patents

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770496/5301/0517

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For containers >5-55 gal. Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat procedure two more times. Then offer for recycling or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

DIRECTIONS FOR USE

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AVAILABLE CHLORINE TABLE OF PROPORTIONS

0.5 ppm - 1 oz. in 1300 gal. water
50 ppm - 1 oz. in 13 gal. water
100 ppm - 2 oz. in 13 gal water/1 oz. in 6.5 gal. water
200 ppm - 4 oz. in 13 gal. water/2 oz. in 6.5 gal. water
600 ppm - 12 oz. in 13 gal. water
700 ppm - 14 oz. in 13 gal. water

SANITIZATION

SANITIZING NONPOROUS FOOD CONTACT EQUIPMENT

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 2 oz. of Pristine PRO in 13 gal. of water. If no test kit is available prepare a sanitizing solution by mixing 4 oz. of Pristine PRO in 13 gal. of water to provide approximately 200 ppm available chlorine by weight.

At 100 ppm available chlorine, this product is an effective sanitizer against *Vibrio cholera*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhi* and *Staphylococcus aureus*. Just prior to use, clean all surfaces with proper detergent and rinse with water. Rinse all surfaces thoroughly with the sanitizing solution maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Allow equipment to drain thoroughly. Do not rinse and do not soak overnight.

SANITIZING POROUS FOOD CONTACT EQUIPMENT

Prepare a 600 ppm solution by thoroughly mixing 3 oz. of this product in 3 gal. water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minutes. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution (4 oz./13 gal. water). Do not rinse and do not soak overnight.

FOOD EGG SANITIZATION: Thoroughly clean all eggs before proceeding. To sanitize clean shell eggs intended for food or food products, apply solution with a coarse spray of 2 oz. of product in 6.5 gal. of water (providing 200 ppm available chlorine). The solution must be equal to or warmer than the eggs, but not to exceed 130 deg F. Wet eggs thoroughly and allow to drain. Eggs that have been sanitized with this chlorine compound may be broken for use in the manufacture of eggs product without a prior potable water rinse. Eggs must be thoroughly dry before casing or breaking. The solution must not be reused for sanitizing eggs.

FOR CONTINUOUS TREATMENT OF MEAT AND POULTRY OR FRUIT AND VEGETABLE CONVEYORS:

Wash, rinse and sanitize conveyor equipment. During processing, apply Pristine PRO at a 200 ppm available chlorine level to conveyors with MIKRO MASTER or other suitable feeding equipment. Controlled volumes of sanitizer are applied to the return portion of conveyor through nozzles so located as to permit maximum drainage of sanitizer from equipment and to prevent puddles on top of belt. During interruptions in operations, apply a coarse spray to equipment, peelers, collators, slicers and saws with MIKRO MASTER dispensed Pristine PRO solution of 200 ppm available chlorine. Conveyor equipment must be free of product when applying this coarse spray.

NOTE: For mechanical operations, prepared use solutions may not be reused for sanitizing but may be re-used for other purposes such as cleaning.

For manual operations, fresh sanitizing solutions must be prepared as soon as they become diluted or soiled.

GLOVE DIP SANITIZER DIRECTIONS

To prevent cross contamination from area to area in animal areas and packaging and storage areas of food plants, dip pre-washed (plastic, latex, or other synthetic rubber) non-porous gloved hands into a suitable clean container that contains enough freshly made sanitizing solution to cover the gloved area. Remove gross contamination from gloves before sanitizing. Then place gloved hand in a use-solution 4 oz. of this product in 13 gal. of water to provide approximately 200 ppm available chlorine by weight for 2 minutes. Change the solution in the bath at least daily or more often if the solution appears visibly soiled or contains less than 200 ppm.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

Rinse Method: Prepare sanitizing solution by thoroughly mixing 4 oz. of this product in 13 gal. of water to provide approximately 200 ppm available chlorine by weight. Clean surfaces such as floors and walls in the normal manner. Rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse with water after treatment.

BACTERIOPHAGE CONTROL

Pristine PRO helps to temporarily reduce the number of airborne spoilage organisms *Streptococcus cremoris* and *Streptococcus diacetylactis* bacteriophage in closed vessels in cheese manufacturing establishments. Spray desired areas using one quart per 1000 cu. ft. of room area with the 600 ppm available chlorine Pristine PRO solution. A dust mist respirator must be worn when applying the product. Vacate the area of all personnel for a minimum of 2 hours after treatment.

WATER TREATMENT

TREATMENT OF POTABLE WATER IN MEAT PROCESSING PLANTS

For processing water in meat plants, use chlorine level up to 5 ppm available chlorine (1/4 oz. product/38 gal. water) and for processing water in poultry plants, use chlorine level up to 20 ppm available chlorine (1/4 oz. product/10 gal. water).

TREATMENT OF POULTRY PROCESSING WATER

Follow guidelines of local water authority for water potability treatment.

Continuous Feed: Using an automatic metering device, continuously feed this product into the water to obtain and/or maintain a level of **5-20 ppm available chlorine (1 oz. product in 130 gal. water, to 2 oz. product in 65 gal. water)**. Confirm target chlorine level with either a chlorine test kit or an automatic testing device. When the available chlorine level reaches 20 ppm, notify the USDA plant inspector.

Intermittent Feed: Start up by adding 1.5 oz. of this product in 1,000 gal. of water for each 1 ppm of available chlorine needed. For subsequent doses, check chlorine level with a chlorine test kit. Add enough of this product to maintain the target chlorine level and confirm this level with a chlorine test kit. Do not pour this product directly on poultry product in the water.

WATER CHLORINATION

For farm, private or small municipal water chlorination feed solution with a hypochlorinator until an available chlorine residual of at least 0.2 to 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local health department for further details.

DISINFECTION

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

Rinse Method: If the product is to be used immediately, prepare a disinfecting solution by thoroughly mixing 12 oz. of this product in 13 gal. of water to provide approximately 600 ppm available chlorine by weight. If the product will be stored for an extended period of time, between 1 to 8 hours, prepare a disinfecting solution by mixing 14 oz. of this product in 13 gal. of water to provide approximately 700 ppm available chlorine by weight. Clean surfaces, such as floors and walls, in the normal manner. Rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse with water after treatment.

FRUIT AND VEGETABLE WASHING

Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 8 oz of product in 200 gal. of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruits or vegetables for 2 minutes in a second wash tank containing the recirculating sanitizing solution. Coarse spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

EPA Reg. No. 1677-52

EPA Est. 1677-1L-2 (J), 303-IN-1 (L), 1677-WV-1 (V), 1677-CA-2 (R), 1677-TX-1 (D), 5389-NC-1 (G), 1677-GA-1 (M), 1677-MN-1 (P), 70271-CA-2 (A).

Superscript refers to first letter of date code.

NET CONTENTS:

EPA PROOF IN PROCESS (PLEASE DATE AND INITIAL WHEN FINISHED)										
ROUND	1	2	3	4	5	6	7	8	9	10
DATE	03/03/17	03/06/17	04/04/17	04/11/17	06/23/17					
Designer										
Initials	KF	KF	JW*	AP	KF					

* When EPA art is finalized and going to print vendor put an * next to your initials.