



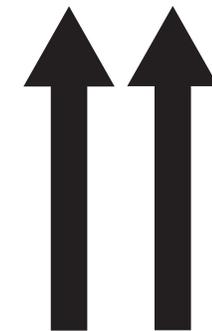
LICENSED

PERIOD 2015-2017 LIC. NO. 9203.193



LICENSED

PERIOD 2012-2014 LIC. NO.



Vortexx™

Acid Liquid Sanitizer Ácido líquido desinfectante

ACTIVE INGREDIENTS:

Hydrogen Peroxide.....	6.9%
Peroxyacetic Acid.....	4.4%
Octanoic Acid.....	3.3%
INERT INGREDIENTS:	85.4%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN

MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS

DANGER | PELIGRO

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE: Causes irreversible eye damage and skin burns. Do not get in eyes or on clothing. Harmful if inhaled or swallowed. Avoid breathing vapor or spray mist. Wear protective eyewear (goggles, face shield, or safety glasses) and protective gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse.

PHYSICAL AND CHEMICAL HAZARDS

Strong oxidizing agent: Corrosive. Do not use in concentrated form. Mix only with water according to label instructions. Never bring concentrate in contact with other sanitizers, cleaners or organic substances.

EPA Reg. No. 1677-158

Read other label for directions for use, first aid and precautionary statements.

Lea la otra etiqueta para direcciones de uso, primeros auxilios y medidas preventivas.

123456/5300/0713

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

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

FOR EMERGENCY MEDICAL INFORMATION IN USA OR CANADA, CALL: 1-800-328-0026.

FOR EMERGENCY MEDICAL INFORMATION WORLDWIDE, CALL: 1-651-222-5352 (IN THE USA).

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

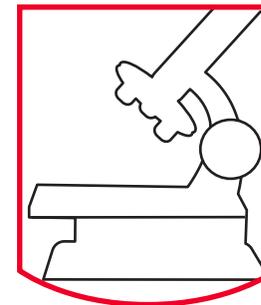
STORAGE & DISPOSAL

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

PESTICIDE STORAGE: Product should be kept cool and in a vented container to avoid any explosion hazard.

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.

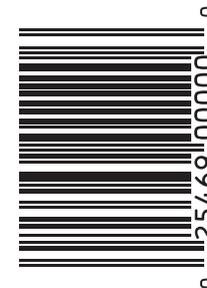
CONTAINER HANDLING AND DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back 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.



Sanitizer
Desinfectante

NET CONTENTS:
189 L (50 US GAL)
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**PRODUCT
SHOULD BE
KEPT COOL
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Vortexx™

Acid Liquid Sanitizer Ácido líquido desinfectante

KEEP OUT OF REACH OF CHILDREN MANTÉNGASE FUERA DEL ALCANCE DE LOS NIÑOS DANGER | PELIGRO

ENVIRONMENTAL HAZARDS: 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.

STRONG OXIDIZING AGENT

DIRECTIONS FOR USE

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

SANITIZATION: Vortexx is recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing plants. This product is effective as a sanitizer when solution is prepared in water of up to 500 ppm hardness as CaCO₃.

NOTE: FOR MECHANICAL OPERATIONS: Prepared use solutions may not be reused for sanitizing but may be reused for other purposes such as cleaning.

FOR MANUAL OPERATIONS: Fresh sanitizing solutions should be prepared at least daily or more often if the solution becomes diluted or soiled.

SANITIZING FOOD CONTACT SURFACES: Prior to sanitizing, remove gross food particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 1 to 2 ounces Vortexx per 6 gallons of water (0.13 - 0.26% v/v concentration). At this dilution Vortexx is effective against *Staphylococcus aureus*, *Escherichia coli*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhimurium* (milk isolate), *Enterobacter sakazakii*, and *Vibrio cholerae*, as well as beverage spoilage organism *Lactobacillus malefermentans*. Use immersion, coarse spray or circulation techniques as appropriate to the equipment. All surfaces should be exposed to the sanitizing solution for a period of not less than one minute unless a longer time is specified by the governing sanitary code. Drain thoroughly. Do not rinse.

FINAL SANITIZING BOTTLE RINSE: Vortexx may be used as a final sanitizing rinse for returnable and non-returnable bottles (e.g. glass or PET) at a 0.13% dilution (1 oz to 6 gallons). At this dilution, Vortexx is effective against *Staphylococcus aureus*, *Escherichia coli*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhimurium*, *Enterobacter sakazakii*, *Vibrio cholerae*, and *Lactobacillus malefermentans*. All surfaces should be exposed to the sanitizing solution for a period of not less than 1 minute. Drain thoroughly. No rinse necessary.

FINAL BOTTLE AND CLOSURE CLEANING RINSE: Vortexx may be used as a final cleaning rinse for returnable and non-returnable bottles (e.g. glass or PET) and closures not requiring a final food contact surface sanitizing rinse when used up to 2 oz. per 6 gallons of water (up to 0.26% v/v or 2600 ppm product). Drain thoroughly. No rinse necessary.

DIRECTIONS FOR USE AS A HARD SURFACE CLEANER: For hard surface cleaning applications, remove gross food particles, then wash using Vortexx up to 2 oz. per 6 gallons of water (up to 0.26% v/v or 2600 ppm product). All hard food contact surfaces treated with this cleaning system should be drained thoroughly, no rinse required.

CONTINUOUS TREATMENT OF CONVEYORS: Wash, rinse and sanitize conveyor equipment. During processing, apply Vortexx at no more than 0.13% - 0.26% v/v (1 to 2 oz. per 6 gallons of water) concentration to conveyor with Mikro Master or other suitable feeding equipment. At this dilution Vortexx is effective against *Staphylococcus aureus*, *Escherichia coli*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhimurium* (milk isolate), *Enterobacter sakazakii*, and *Vibrio cholerae*. Controlled volumes of Vortexx are applied to return portion of conveyor through nozzles so located as to permit maximum drainage of Vortexx from equipment and to prevent puddles on top of belt. During interruptions in operations, coarse spray the processing equipment with Vortexx solution at not more than 0.26% v/v concentration. Conveyor equipment must be free of product when applying coarse spray. Conveyor surface should be exposed to the sanitizing solution for a period of not less than 60 seconds.

SANITIZING NON-FOOD CONTACT SURFACES: Pre-clean surfaces as directed above. Sanitize non-food contact surfaces such as floors, walls, tables, chairs, benches, drains, troughs, and drip pans with 1 oz. Vortexx per 8 gallons of water (0.1% v/v concentration). At this concentration the product is effective against *Staphylococcus aureus*, *Enterobacter aerogenes*, *Escherichia coli* O157:H7, *Listeria monocytogenes* and *Salmonella typhimurium* (milk isolate), in 500 ppm hard water. The product is also effective against beverage spoilage organisms: *Aspergillus niger*, *Saccharomyces cerevisiae*, *Pediococcus damnosus*, and *Lactobacillus malefermentans*. All surfaces should be exposed to the sanitizing solution for a period of not less than 5 minutes. Drain thoroughly and allow to air dry. No rinse necessary.

SANITIZING HARD, NON-POROUS, NON-EDIBLE OUTSIDE SURFACES OF AIRTIGHT, SEALED PACKAGES CONTAINING FOOD OR NON-FOOD PRODUCTS: Vortexx may be used as a final sanitizing rinse for hard, non-porous outside surfaces of airtight, sealed packages containing food or non-food products at a 0.13% - 0.26% v/v dilution (1 to 2 oz. per 6 gallons of water). The treated hard, non-porous, non-edible packaging, such as food wraps and meat casings, must be removed and discarded before packaged food products are further processed or consumed. All surfaces should be exposed to the sanitizing solution for a period of not less than 1 minute. Drain thoroughly. No rinse necessary. This is not to be used on porous surfaces.

FOAM SANITIZING NON-FOOD CONTACT SURFACES: Vortexx is an effective foam sanitizer of pre-cleaned non-food contact surfaces, such as boots, floors, walls, drains, and equipment surfaces. For this application, prepare a solution of 0.13% v/v (1 oz. per 6 gallons water) Vortexx and 0.13% v/v (1 oz. per 6 gallons water) Liquid K. For example, in 6 gallons of water, add 1 ounce of Vortexx and 1 ounce of Liquid K. Apply solution as a foam using recommended equipment. Wet surfaces thoroughly. At this concentration, the product is effective against *Staphylococcus aureus*, *Enterobacter aerogenes*, and *Listeria monocytogenes*. Surfaces should be exposed to the sanitizing foam for a period of not less than 5 minutes. No rinse is necessary. Contact your Ecolab representative for information on Liquid K foaming agent and a recommended foam generation device.

SANITIZING NON-FOOD CONTACT PACKAGING EQUIPMENT: Prior to use of this product, remove gross soil particles from surfaces. Wash with a recommended detergent solution, rinse thoroughly with potable water. For sanitization against *Staphylococcus aureus*, *Enterobacter aerogenes*, *Escherichia coli* O157:H7, *Listeria monocytogenes* and *Salmonella typhimurium* (milk isolate), as well as beverage spoilage organisms, *Aspergillus niger*, *Pediococcus damnosus*, *Lactobacillus malefermentans* and *Saccharomyces cerevisiae*, apply 0.1 - 0.5% (1 to 5 oz. per 8 gallons of water) of Vortexx to surfaces at a temperature of 25 to 45 deg C and allow to remain wet for at least 5 minutes. Allow surfaces to drain thoroughly before operations are resumed. Drainage may be followed by a potable or sterile water rinse.

SANITIZE PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE BOTTLED WATER CONTAINERS: To sanitize pre-cleaned or new returnable or non-returnable containers for bottled water processing, apply Vortexx at a concentration of 0.75 to 2.2% (9 to 26 oz. per 10 gallons of water) at a temperature of 40 to 60 deg. C for at least 7 seconds. At these conditions, Vortexx is effective against *Staphylococcus aureus*, *Escherichia coli*, *Salmonella typhi*, *Pediococcus damnosus*, *Lactobacillus malefermentans*, *Saccharomyces cerevisiae* and *Aspergillus niger*. After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS: To reduce the number of beverage spoilage organisms, *Pediococcus damnosus*, *Lactobacillus malefermentans*, *Saccharomyces cerevisiae* and *Aspergillus niger*, apply Vortexx at a concentration of 0.75 to 2.2% (9 to 26 oz. per 10 gallons of water) at a temperature of 40 to 60 deg C for at least 7 seconds. After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.

BACTERIOPHAGE CONTROL: When applied to pre-cleaned surfaces, Vortexx will reduce the incidence of *Lactococcus lactis* subsp. *Lactis*, *Lactococcus lactis* subsp. *Cremoris*, and *Streptococcus thermophilus* bacteriophage in cheese manufacturing establishments by spraying or immersion of equipment at concentrations of 1-2 oz. per 6 gallons (0.13 - 0.26% v/v concentration) of water. All surfaces should be exposed to the solution for a period of not less than one minute. Drain thoroughly. Do not rinse.

DISINFECTION: Vortexx disinfects as it cleans in one operation. Vortexx can be used to disinfect floors, walls and other hard, nonporous surfaces such as tables, chairs, counter tops, bathroom fixtures, sinks, bed frames, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass. Use Vortexx in veterinary clinics, animal life science laboratories, industrial facilities, office buildings, recreational facilities, retail and wholesale establishments.

COMBINATION DISINFECTION AND CLEANING: Vortexx is effective against *Staphylococcus aureus* and *Salmonella enterica* at 0.2% - 1.0% (1 oz/4 gallons to 5 oz/4 gallons) in hard water (500 ppm as CaCO₃) and 5% blood serum on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with mop, cloth, sponge, brush, scrubber, or coarse spray device or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted. Rinse food contact surfaces that come in contact with food with potable water prior to reuse.

VIRUCIDAL: At 0.2% (1 oz/4 gal) Vortexx is effective against Influenza B, Influenza A (H3N2), Influenza A (H1N1), Influenza A (H10N7), Avian Influenza A (H3N2) and Reovirus on hard inanimate surfaces when used at 20 deg C with a 10 minute contact time in the presence of 500 ppm hard water and organic soil. Apply as directed under disinfection.

FUNGICIDAL: Vortexx can be used on hard, nonporous inanimate surfaces such as shower room floors, locker room benches, shower stalls and bath mats. At 0.2% (1 oz/4 gal) the product is effective against *Trichophyton mentagrophytes* (Athletes Foot Fungi) and *Candida albicans* (pathogenic yeast) in the presence of protein (5% blood serum) in 500 ppm hard water with a 10 minute contact time. Apply as directed under disinfection.

STERILIZATION OF MANUFACTURING, FILLING, AND PACKAGING EQUIPMENT IN ASEPTIC PROCESSES: Prior to use of this product, remove gross soil particles from processing surfaces, then wash with a recommended detergent solution, followed by a thorough potable water rinse. Prepare a 5% sterilizing solution of Vortexx. Circulate, coarse spray, or flood the sterilizing solution as appropriate to the equipment. All surfaces should be exposed to the sterilizing solution for 30 minutes. This product is effective against *Clostridium sporogenes* and *Bacillus subtilis* at 5% (25 oz/4 gal) in 100 ppm hard water and 5% organic load at 20 deg C. Thoroughly rinse food contact surfaces with either a sterile water or potable water rinse. This product is not for use as a sterilant on medical devices.

DISINFECTING PHARMACEUTICAL AND COSMETIC SURFACES: Vortexx is recommended for use on hard, non-porous, environmental surfaces such as floors, walls and processing equipment in pharmaceutical and cosmetic processing facilities. Vortexx is effective against *Staphylococcus aureus* and *Salmonella enterica* at 0.2% (1 oz/4 gal) in hard water (500 ppm as CaCO₃) and 5% blood serum. For heavily soiled areas a pre-cleaning step is required. Rinse all surfaces thoroughly with the disinfecting solution and maintain a contact time of at least 10 minutes. Product contact surfaces must be rinsed with sterile water.

POULTRY HOUSE DISINFECTION: Vortexx is effective against the Avian Influenza A (H3N2) virus.

Special Instructions for Inactivating Avian Influenza A.

1. Remove all poultry and feeds from premises, trucks, coops, and crates.
2. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
7. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap and detergent, and rinse with potable water before reuse.

FARM PREMISE DISINFECTION: Vortexx is effective against the Avian Influenza A (H3N2) virus.

Special Instructions for Inactivating Avian Influenza A.

1. Remove all animals and feed from premises, vehicles, and enclosures.
2. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
3. Empty all troughs, racks, and other feeding and watering appliances.
4. Thoroughly clean all surfaces with soap or detergent and rinse with water.
5. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.
7. Ventilate buildings, cars, boats, and other closed spaces. Do not house livestock or employ equipments until treatment has been absorbed, set, or dried.
8. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains, and waterers with soap and detergent and rinse with potable water before reuse.

NOTE: This product in its use solutions is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

Vortexx can be monitored real-time, decreasing dependence on manual titrations. See separate instructions for using monitoring equipment.

- Enables reduced water consumption for CIP programs with a rinse post-sanitizer
- Allows for automatic monitoring of the entire CIP process
- Improves continuous control of sanitizer concentrations in recirculation systems
- Improves concentration control in ESL and antimicrobial bottle rinse applications
- Chemical concentration can be monitored real-time decreasing dependence on manual titrations. See separate instructions for using monitoring equipment.

EPA Reg. No. 1677-158

EPA Est. 60156-IL-1 (SI), 1677-IL-2 (J),

1677-TX-1 (D), 1677-GA-1 (M),

1677-CA-1 (S), 1677-MN-1 (P),

70271-CA-2 (A), 1677-CA-2 (R),

1677-WV-1 (V).

Superscript refers to first letter of

date code.

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