UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 24 2005

Ecolab, Inc.
370 N. Wabasha Street
St. Paul, MN 55102

Attention: Joy A. Salverda
Regulatory Analyst

Subject: Oxonia Active
EPA Registration No. 1677-129
Your Amendment Dated January 7, 2005

The amendment, submitted in connection with registration under the FIFRA sec. 3(c)(7)(A), to revise the Antimicrobial Treatment of Water Filters Directions for Use, to add Antimicrobial Treatment of Reverse Osmosis Water Membranes Directions for Use, to add the Booster for Alkaline Detergents to Clean Food Processing Equipment Directions and to add the statement "disinfected water rinse free of bacteria"as a superscript for reference required by the State of California, is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec.3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Submit two (2) copies of final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the approved labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,

Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510C)

Enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

EPA Form 1320-1A (1-90) OFFICIAL FILE COPY

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ACCEPTED
with COMMENTS
In EPA Letter Dated:

MAR 2 4 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1677-129

OXONIA ACTIVE

ACID LIQUID SANITIZER FOR FOOD PROCESSING EQUIPMENT
in Dairies, Dairy Farms, Breweries, Wineries, Beverage and Food Processing Plants

ACID LIQUID SANITIZER FOR SANITIZING TABLEWARE

DISINFECTANT
Hospitals, Health Care Facilities, Academic Facilities, Veterinary Facilities, Animal Care Facilities, Industrial Facilities, Dietary Areas, Office Buildings, Recreational Facilities, Retail and Wholesale Establishments, Farms, Livestock Quarters, Poultry Premises, and Poultry Hatcheries

DISINFECTANT FOR THE PHARMACEUTICAL AND COSMETIC INDUSTRY

Active Ingredients:	
Hydrogen Peroxide	27.5%
Peroxyacetic Acid	5.8%
Inert Ingredients:	66.7%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER
PELIGRO

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER: CORROSIVE: Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin or inhaled. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals. Do not breathe vapor or spray mist. Wash thoroughly after handling with soap and water and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. The following Personal Protective Equipment (PPE) should be used when handling the product: coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear, goggles or face shield, chemical-resistant gloves (such as rubber or make out of any waterproof material), chemical-resistant apron. Wear a mask or pesticide respirator jointly approved by Mine Safety and Health Administration and the National Institute for Occupational Safety and Health.

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 SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have a 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 ON SKIN OR CLOTHING: Take of contaminated clothing. Rinse skin immediately with plenty of water for 15 –20 minutes. Call a poison control center or doctor for treatment advice.
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.
Have the product container or label with you when calling a poison control center or going for treatment.
FOR EMERGENCY MEDICAL INFORMATION CALL TOLL FREE: 1-800-328-0026
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to birds, fish, and aquatic invertebrates. 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 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.

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

SANITIZATION

Oxonia Active acid sanitizer is recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, dairy farms, 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 $CaCO_3$.

NOTE: FOR MECHANICAL OPERATIONS prepared use solution 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, and then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 1.0 to 1.4 ounces **Oxonia Active** concentrate per 4 gallons of water (0.20 - 0.28% v/v concentration). At this dilution **Oxonia Active** is effective against *Staphylococcus aureus*, *Escherichia coli*, *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella typhimurium*, *Pseudomonas aeruginosa* and *Vibrio cholerae*. Also effective against organisms found in the brewing industry, *Saccharomyces cerevisiae*, *Pediococcus damnosus* and *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 and allow to air dry. Do not rinse.

SANITIZING EATING, DRINKING, AND FOOD PREP UTENSILS
1. Remove gross food particles by a prescrape, preflush and, when necessary, a presoak treatment.
2. Wash with a recommended detergent.
3. Rinse with clean water.
4. Sanitize in a solution of 1.0 to 1.4 oz **Oxonia Active** to 4 gallon of water. Immerse all utensils for at least 1 minute or contact time specified by governing sanitary code.
5. Drain and air dry.

ELEVATED TEMPERATURE SANITIZING
For sanitization of equipment in food processing plants, restaurants, etc., clean and rinse equipment thoroughly. At a temperature of 120 deg F, **Oxonia Active** is an effective sanitizer for food contact surfaces at a concentration of 0.2% to 0.28% v/v (2 to 2.8 oz. **Oxonia Active** to 8 gallons water) against *Staphylococcus aureus* and *Escherichia coli*. All surfaces should be exposed to the sanitizing solution for a period of not less than 1 minute. Allow equipment to drain thoroughly.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

MAR 2 4 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1677-152

4 7 8

ACCEPTED
COMMENTS
In EPA Letter Dated:

MAR 2 4 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1677-129

SANITIZING TABLEWARE

For sanitizing tableware in low-temperature warewashing machines, inject **Oxonia Active** into the [illegible] at a concentration of 0.2 - 0.28% v/v (2 to 2.8 oz. per 8 gallons of water). Do not exceed 0.28% v/v. Air dry.

To insure that the **Oxonia Active** sanitizer concentration does not fall below 0.1%, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your local Ecolab Specialist for technical assistance and further information on sanitizing tableware in warewashing machines.

SANITIZING NON-FOOD CONTACT SURFACES

Preclean surfaces as directed above. Sanitize non-food contact surfaces such as floors, walls, tables, chairs, benches, drains, troughs, and drip pans with 1 oz **Oxonia Active** per 8 gl water. At this concentration the product is effective against *Staphylococcus aureus, Enterobacter aerogenes, Escherichia coli, Listeria monocytogenes, Salmonella typhimurium, Pseudomonas aeruginosa,* and *Saccharomyces cerevisiae*. Also effective against organisms found in the brewing industry, *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.

FOAM SANITIZING NON-FOOD CONTACT SURFACES

Oxonia Active is an effective foam sanitizer of precleaned non-food contact surfaces, such as boots, floors, walls, drains, and associated equipment. For this application, prepare a solution of 0.2% v/v (1 oz per 4 gallons water) **Oxonia Active** and 0.13% v/v (0.7 oz per 4 gallons water) **Liquid K or EcoCare 600 FA**. For example, in four gallons of water, add 1 ounce of **Oxonia Active** and 0.7 ounces of **Liquid K or EcoCare 600 FA**). **Liquid K or EcoCare 600 FA** is the only approved foam generator. Apply solution as a foam using recommended equipment such as a Super Foamer. 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 and a recommended foamer.

DIRECTIONS FOR FOGGING

To sanitize hard surfaces as an adjunct to acceptable manual cleaning and disinfecting of room surfaces: Prior to fogging, food products and packaging materials must be removed from the room or carefully protected. Fog desired areas using one quart of a 0.3% to 3.0 % **Oxonia Active** solution (3 oz. to 30 oz. per 8 gallons of water) per 1000 cu. ft. of room volume. Vacate the area of all personnel during fogging and until the hydrogen peroxide air concentration is below 0.5 ppm. Allow surfaces to drain thoroughly before operations are resumed. Solutions above 0.5% may be corrosive and are not to be used on all surfaces. Test solutions on surfaces prior to use. All hard non-porous food contact surfaces treated with the disinfectant and fog must be rinsed thoroughly with a potable water rinse.

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 the beverage spoilage organisms *Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae,* apply 0.5 - 4.0% (5 oz. to 40 oz. per 8 gallons of water) of **Oxonia Active** 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.

SANITIZE PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE BOTTLED WATER CONTAINERS

To sanitize precleaned or new returnable or non-returnable containers for bottled water processing, apply **Oxonia Active** at a concentration of 1.0% to 4.0% (10 oz. to 40 oz. per 8 gallons or water) at a temperature of 40 to 60 deg. C for at least 7 seconds. At these conditions, **Oxonia Active** is effective against *Staphylococcus aureus, Escherichia coli, Salmonella typhi, Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae.* After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.[1]

SANITIZE PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE BOTTLED WATER CONTAINERS

To sanitize precleaned or new returnable or non-returnable containers for bottled water processing, apply **Oxonia Active** at a concentration of 0.3% to 1.0% (3 oz. to 10 oz. per 8 gallons or water) at a temperature of 40 to 60 deg. C for at least 20 seconds. At these conditions, **Oxonia Active** is effective against *Staphylococcus aureus, Escherichia coli,* and *Pseudomonas aeruginosa.* After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.[1]

ANTIMICROBIAL TREATMENT OF WATER FILTERS

To reduce the number of the beverage spoilage organisms *Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae.* Clean the water filters with a detergent solution followed by a potable water rinse. Apply **Oxonia Active** as a 0.5 to 2.0% (5 to 20 fluid ounces per 8 gallons of water) solution at 77 °F for a minimum contact time of 5 minutes. After thorough draining, rinse filters with a disinfected water rinse free of pathogenic bacteria.[1] Consult filter manufacturer for filter compatibility guidelines. Conduct filter treatment while the process is not in operation.

ANTIMICROBIAL TREATMENT OF REVERSE OSMOSIS WATER MEMBRANES

To reduce the number of the beverage spoilage organisms *Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae.* Clean the RO system with a detergent solution followed by a potable water rinse. Apply **Oxonia Active** as a 0.1-0.2% (1 to 2.1 fluid ounces per 8 gallons of water) use solution at 75°F for a minimum contact time of 5 minutes. After treatment with **Oxonia Active** use solution, rinse membranes thoroughly with a disinfected water rinse free of pathogenic bacteria.[1] Do not treat membranes more than once per week. Consult membrane manufacturer for membrane compatibility guidelines. Conduct membrane treatment while the membrane system is off-line.

ACCEPTED
with COMMENTS
In EPA Letter Dated:
MAR 24 2005
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 1677-129

ANTIMICROBIAL TREATMENT OF FOOD PROCESSING MEMBRANES

To reduce the number of the spoilage organisms *Pediococcus damnosus, Lactobacillus malefermentans, Saccharomyces cerevisiae, Sphingomonas paucimobilis, and Aureobacterium esteraromaticum.*

Ultrafiltration Membranes: Use 2 to 2.5 ounces of Oxonia Active per 8 gallons of water (2,000 - 2,500 ppm v/v) at 75 degrees °F for a minimum contact time of 5 minutes. Membranes can be treated daily. Conduct membrane treatment while food processing is not in operation. After treatment with Oxonia Active use solution, rinse membranes thoroughly with disinfected water free of pathogenic bacteria.[1]

Reverse Osmosis Membranes: Use 0.9 to 1.1 ounces of Oxonia Active per 8 gallons of water (900 - 1,100 ppm v/v) at 75 degrees °F for a minimum contact time of 5 minutes. Do not treat membranes more than once per week. Conduct membrane treatment while food processing is not in operation. After treatment with Oxonia Active use solution, rinse membranes thoroughly with disinfected water free of pathogenic bacteria.[1]

Oxonia Active is not intended for use in Nanofiltration Systems.

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS

To reduce the number of the beverage spoilage organisms, *Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae*, apply **Oxonia Active** at a concentration of 1.0% to 4.0% (10 oz. to 40 oz. per 8 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.[1]

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS WITH THE ADDITION OF A SURFACTANT

To reduce the number of beverage spoilage organisms, *Pediococcus damnosus, Lactobacillus malefermentans,* and *Saccharomyces cerevisiae*, apply **Oxonia Active** as follows. Add 0.5 to 5 oz. of surfactant product to 8 gallons of prepared **Oxonia Active** solution. Prepare **Oxonia Active** at a concentration of 1.0 to 4.0% (10 to 40 oz. per 8 gallons of water) solution. Use one of the following surfactants, KX-7014, KX-7015, KX-7016, or KX-7017. Apply at a temperature of 40 to 60 deg C with a contact time of at least 7 seconds. After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.[1]

[1]A disinfected water rinse free of pathogenic bacteria is equivalent to a water rinse using water disinfected by ozone, ultraviolet radiation, chlorine dioxide, filtration, chlorine or chlorine compounds.

BOOSTER FOR ALKALINE DETERGENTS TO CLEAN FOOD PROCESSING EQUIPMENT

Oxonia Active is an effective oxygen bleach cleaning booster for use with alkaline detergents. For cleaning applications as a detergent booster, use 0.5 - 2.5% v/v total product (0.64 - 3.2 oz. per gallon of detergent use solution) to aid in the removal of organic soils. All hard non-porous food contact surfaces treated with this boosted detergent must be rinsed thoroughly with a potable water rinse followed by sanitizing with an approved food contact surface sanitizer.

DISINFECTION

Oxonia Active disinfects as it cleans in one operation. **Oxonia Active** can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of Use: In Hospitals, use **Oxonia Active** for Surgical and Obstetrical Suites; Housekeeping Services; Physical Therapy Departments; Nursing Services; Autopsy Facilities. Also, use Oxonia Active in nursing homes, other health-care facilities, academic facilities, veterinary facilities, animal care facilities, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishments. Not for use on food contact surfaces, medical devices or medical equipment.

COMBINATION DISINFECTION AND CLEANING

Oxonia Active is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, *Salmonella enteriditis*, *Salmonella typhimurium*, *Proteus vulgaris*, *Streptococcus pyogenes* and *Histoplasma capsulatum** at 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) in hard water (500 ppm as $CaCO_3$), 5% blood serum and dried soap film residue on hard nonporous surfaces. For heavily soiled areas a precleaning step is required. Prepare a disinfecting and cleaning solution by diluting 4 ounces **Oxonia Active** in 8 gallons of water (0.4% v/v). 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.

*Not tested in the presence of soap film residue.

TUBERCULOCIDAL

Oxonia Active is effective as a tuberculocide at 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) in the presence of 5% blood serum, 500 ppm hard water and residual soap scum on nonporous surfaces at 20 deg C. Remove heavy soil or gross filth prior to disinfection. Allow surfaces to remain wet for 10 minutes, then remove solution with a clean wet mop, cloth, or wet vacuum pickup.

VIRUCIDAL

At 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) **Oxonia Active** is effective against Influenza B/Taiwan/2/62, Influenza A(H3N2) and Influenza A (H1N1) 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.

DISINFECTING PHARMACEUTICAL AND COSMETIC SURFACES

Oxonia Active is recommended for use on hard, non-porous, environmental surfaces such as floors, walls and processing equipment in pharmaceutical and cosmetic processing facilities.

This product is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, and *Pseudomonas aeruginosa* at 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) in hard water (500 ppm as $CaCO_3$), 5% blood serum and dried soap film residue. For heavily soiled areas a precleaning 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.

OXONIA ACTIVE is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, **Oxonia Active** is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages and feeding and watering equipment. In addition **Oxonia Active** will deodorize those areas that are generally hard to keep fresh smelling such as garbage storage areas, empty garbage bins and cans, and any other areas that are prone to odors caused by microorganisms.

All treated equipment that will contact feed or drinking water must be rinsed with potable water before reuse.

For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

DISINFECTION OF POULTRY PREMISES, TRUCKS, COOPS AND CRATES

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 a detergent and rinse with water.
5. Saturate surfaces with a 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) solution of **Oxonia Active** 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 a detergent and rinse with potable water before reuse.

See your Ecolab or Airkem Representative for specific recommendations for all cleaning and rinsing requirements.

POULTRY HATCHERY DISINFECTION

Clean out any remaining eggs and chicks. Remove gross soils, such as litter, down, shell fragments or other hatching related debris. Empty all racks and other equipment. Thoroughly wash all surfaces, including floors, walls, conveyors, trays and water systems with a recommended detergent. Rinse thoroughly with water. Apply a 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) solution of **Oxonia Active** with a mop, cloth, brush or coarse spray. Wet all surfaces and allow to remain wet for 10 minutes. Ventilate buildings and other closed spaces. Allow to dry before reintroducing eggs.

DISINFECTION AND DEODORIZING OF ANIMAL HOUSING FACILITIES (BARNS, KENNELS, HUTCHES)

Remove animals and feed from facilities. Remove litter, waste matter and gross soils. Empty all troughs, rack and other feeding and watering equipment. Wash surfaces with a recommended alkaline detergent, by manual, foam, or spray application. Rinse with water. Apply a 0.4% to 1.0% (2 oz. / 4 gallons to 5 oz. / 4 gallons of water) solution of **Oxonia Active** with a mop, cloth, brush or coarse spray. Wet all surfaces and allow to remain wet for 10 minutes. Ventilate buildings and other closed spaces. Allow to air dry before reintroducing animals. Effective against *Aspergillus fumigatus.*

VIRUCIDAL ACTIVITY - Poultry and Livestock Pathogens

Oxonia Active is useful as a disinfectant against viruses pathogenic to poultry: Influenza A (H10N7), Newcastle Disease virus, Infectious bronchitis virus, Reovirus ($C0_8$), as well as bovine and other livestock pathogens: Infectious bovine rhinotracheitis (IBR), Parainfluenza 3 Virus, and the foot & mouth disease virus (Aphthovirus).

BACTERIOSTATIC

At 0.04% (1 oz. per 20 gallons of water) **Oxonia Active** is effective at inhibiting the growth of bacteria when used in the presence of 500 ppm hard water and organic soil. **Oxonia Active** can be used on floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, glazed porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

FOR SANITIZING OF HATCHING EGGS

Prepare a solution of **Oxonia Active** by diluting 2 oz product with 5 gallons of water. As eggs are gathered or prior to setting, apply solution as a coarse spray so as to lightly wet all shell surfaces.

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 sterilizing solution by diluting 6.4 ounces **Oxonia Active** concentrate per each gallon of water (50 mL/liter) (5.0% v/v). Circulate, coarse spray, or flood the sterilizing solution through the system. All surfaces should be exposed to the sterilizing solution for a minimum exposure time based on the product solution temperature. The following time and temperature relationships are required:

Oxonia Active Concentration	Temperature	Time
5%	68°F (20°C)	6 hours
5%	122°F (50°C)	20 minutes
5%	176°F (80°C)	5 minutes

Thoroughly rinse food contact surfaces with either a sterile water or potable water rinse. For food-contact surfaces, follow with a sanitizing solution of **Oxonia Active**. Allow surfaces to drain thoroughly prior to any food product contact.

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.

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 DISPOSAL:

(1 gl) Do not reuse empty containers. Wrap container and put in trash.

(4, 15, 30, 50 gl plastic) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(2.5 gl bladder in box) Remove empty bladder from outer corrugated box. Triple rinse bladder (or equivalent). Offer box and bladder for recycling or dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(Totes) Verify that the tote is empty. Do not rinse or clean. Seal tote and contact Ecolab for return.

FOR COMMERCIAL USE ONLY
STRONG OXIDIZING AGENT

EPA Reg. No. 1677-129
EPA Est. 1677-MN-1 (P), 60156-IL-1 (SI), 1677-CA-2(R), 1677-TX-1(D), 1677-OH-1(H), 1677-IL-1(J), 1677-GA-1(M), 1677-PR-1(B), 1677-CA-1(S), 1677-NJ-1(W), 1677-WV-1(V)
Superscript refers to first letter of date code

Net Contents:	1 U.S. Gal. (3.78 L) 4 U.S. Gals. (15.1 L) 2.5 U.S. Gals. 15 U.S. Gals. (56.8 L) 30 U.S. Gals. (113.5 L) 50 U.S. Gals. (189 L) 300 U.S. Gals. (tote)

Ecolab Food and Beverage Division
Ecolab Inc., 370 N. Wabasha Street
St. Paul, MN 55102

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In EPA Letter Dated:

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