OXONIA ACTIVE

Acid Liquid Sanitizer For Food Processing Equipment
In Dairies, Breweries, Wineries, Beverage and Food Processing Plants

For Organic Production
Oxonia Active may be used as a hard surface food contact sanitizer in organic food processing facilities.

ACTIVE INGREDIENTS:
- Hydrogen Peroxide: 27.5%
- Peroxycetic Acid: 5.8%

INERT INGREDIENTS: 86.7%
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 inhaled. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe vapor. 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 footware, goggles or face shield, chemical-resistant gloves (such as rubber or made 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.

FOR COMMERCIAL USE
STRONG OXIDIZING AGENT

EPA Reg. No. 1677-129
Superscript refers to first letter of date code.

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

Sanitization: Oxonol Active acid sanitizer is recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, conveyors, agitators and aspetic 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 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 cloudy or soiled.

Sanitizing Food Contact Surfaces: Prior to sanitizing, remove gross food particles, rinse and then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 1.0 to 1.4 hours Oxonol Active concentrate per 4 gallons of water (0.20-0.28% v/v concentration). At this dilution Oxonol Active is effective against Staphylococcus aureus, Enterobacter aerogenes, Escherichia coli, Salmonella typhi, Pedococcus damnosus, Lactobacillus malfermentans, and Saccharomyces cerevisiae. After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.

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 Oxonol Active at a concentration of 1.0% to 1.4% (0.20-0.28% v/v) of water at a temperature of 40 to 60 deg C for at least 15 minutes. Allow surfaces to drain thoroughly before operations are resumed.

Sanitize Preceded or New Returnable or Non-Returnable Bottled Water Containers: To sanitize predecoded or new returnable or non-returnable containers for bottled water processing, apply Oxonol Active at a concentration of 1.0% to 1.4% (0.20-0.28% v/v) of water at a temperature of 40 to 60 deg C for at least 15 minutes. Allow surfaces to drain thoroughly before operations are resumed.

Staphylococcus aureus, Escherichia coli, and Pseudomonas aeruginosa. After thorough draining, rinse interior container surfaces with a disinfected water rinse free of pathogenic bacteria.

Antimicrobial Treatment of Water Filters: To reduce the number of the beverage spoilage organisms Pedococcus damnosus, Lactobacillus malfermentans, and Saccharomyces cerevisiae. Apply Oxonol Active as a 0.5 to 2.0% (0.2 to 5 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. Consult filter manufacturer’s guidelines 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 Pedococcus damnosus, Lactobacillus malfermentans, and Saccharomyces cerevisiae. Clean the RO system with a detergent solution followed by a potable water rinse. Apply Oxonol Active as a 0.1 to 0.2% (0.05 to 0.2% v/v) solution at 77°F for a minimum contact time of 5 minutes. After thorough draining, rinse membranes thoroughly with a disinfected water rinse free of pathogenic bacteria.

Antimicrobial Treatment of Water Processing Membranes: To reduce the number of the spoilage organisms Pedococcus damnosus, Lactobacillus malfermentans, Saccharomyces cerevisiae, Pseudomonas aeruginosa, and Enterobacter aerogenes. After thorough draining, rinse membranes thoroughly with a disinfected water rinse free of pathogenic bacteria.

Reverse Osmosis Membranes: Use the 0.3 to 1.1 ounces of Oxonol Active per gallon of water (0.99-1.01 ppm) at 77°F for a minimum contact time of 5 minutes. Do not treat membranes more than once per week.

Contact membrane treatment while water processing is not in operation. After thorough drainage, rinse membranes thoroughly with a disinfected water rinse free of pathogenic bacteria.

Oxonol 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 Pedococcus damnosus, Lactobacillus malfermentans, and Saccharomyces cerevisiae, apply Oxonol Active at a concentration of 0.5% to 4.0% (0.05 oz. to 0.4 oz. per 8 gallons of water) at a temperature of 40 to 60 deg C for at least 15 minutes. 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 with the Addition of a Surfactant (rise not approved in the States of California, Tennessee and Washington): To reduce the number of the spoilage organisms, Pedococcus damnosus, Lactobacillus malfermentans, and Saccharomyces cerevisiae, apply Oxonol Active as follow. Add 0.5 to 5 oz. of surfactant product to 8 gallons of prepared Oxonol Active solution. Prepare Oxonol Active at a concentration of 1.0% to 4.0% (0.10 oz. to 0.40 oz.) per 8 gallons of water. Solution is used at a concentration of 0.5% to 4.0% (0.05 oz. to 0.4 oz. per 8 gallons of water). 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.

Booster for Alkaline Detergent to Clean Foaming Equipment: Oxonol 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 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 sanitation procedure.

Booster for Acid Detergents to Clean Foaming Equipment: Oxonol Active is an effective oxygen bleach cleaning booster for use with acidic 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 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 sanitation procedure.

Sterilization of Manufacturing, Filling, and Packaging Equipment in Aseptic Processes: Prior to use of this product, remove gross solid particles from processing surfaces, then wash with a recommended detergent solution, followed by a potable water rinse. Precipitate a sterilizing solution by diluting 6.4 ounces Oxonol Active concentrate per each gallon of water (50 mL/Liter) (5.0% v/v). Circulate, cool, or flood the sterilizing solution through the equipment system. The sterilizing solution should be exposed to the sterilizing solution for a minimum exposure time based on the product solution time. The following time and temperature relationships are required:

<table>
<thead>
<tr>
<th>Oxonol Active Concentration</th>
<th>Temperature</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5%</td>
<td>50°F</td>
<td>6 hours</td>
</tr>
<tr>
<td>5%</td>
<td>122°F (50°C)</td>
<td>20 minutes</td>
</tr>
<tr>
<td>20%</td>
<td>176°F (80°C)</td>
<td>5 minutes</td>
</tr>
</tbody>
</table>

Thoroughly rinse food contact surfaces with either a sterile water or potable water rinse. For food-contact surfaces, follow a sanitizing solution of Oxonol Active. Allow surfaces to drain thoroughly prior to any other product food contact. This product is an effective sporicide against Bacillus stearus and Clostridium sporogenes when used per the label directions. Note: The product in its use solutions is considered to be 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 ventilated container to avoid any explosion hazard.

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.
Pathways
Solid Drain Sanitizer
Solid, Time-Released, Drain Detergent
Sanitizer Ring for Use in Food Processing Industries

ACTIVE INGREDIENT:
Alkyl (60% C14, 30% C16, 5% C12, 5% C18)
dimethyl benzyl ammonium chlorides 49.5%
INERT INGREDIENTS: 50.5%
TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER See side panel for Precautionary Statements and First Aid.

FOR INDUSTRIAL USE ONLY
DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Pathways Solid Drain Sanitizer is a water activated, time-released, solid detergent-sanitizer specifically formulated to improve environmental sanitation and control soil build-up in floor drains and in drainage areas where wet conditions favor microorganism growth and cause sanitation concern.
Pathways Solid Drain Sanitizer has been evaluated at a concentration that supports 0.15 oz. to 3 gallons water (>180 ppm quaternary) in the presence of 5% soil contamination (whole milk or blood-serum) and in waters up to 500 ppm hardness (29.2 gpg calculated as CaCO3). Pathways Solid Drain Sanitizer was evaluated using the Non-Food Contact Sanitizer Test and was proven to be effective against a broad spectrum of gram negative and gram positive organisms found on environmental surfaces represented by:
Staphylococcus aureus  Escherichia coli
Listeria monocytogenes  Enterobacter aerogenes
Pseudomonas aeruginosa  Salmonella typhimurium
Treated surfaces must remain wet for 5 minutes.
Pathways Solid Drain Sanitizer
Net Contents: 12 solid 4" rings
Net Weight: 1.6 lb/0.73 kg

Pathways Solid Drain Sanitizer has been developed for use in drains and areas that receive occasional hot or continuous water flow. To use, clean and sanitize drains, following normal plant environmental sanitation protocol. Grasp pull-tab found on upper edge of plastic container and tear away outside wall from ring exposing product and creating a convenient platform with handle. Position ring to allow maximum contact with water flow. Remove only for periodic drain cleaning and sanitizing. To insure uninterrupted treatment, position new ring when approximately one-quarter of old ring remains. Discard old platform and place remaining product onto new ring. For maximum ring exposure and direct surface contact, ring can easily be completely separated from its plastic platform after outside wall has been removed.
For service or additional information, call 1-800-35-CLEAN (352-5326).

ECOLAB®
Ecolab Inc., Institutional Division
370 Wabasha Street N.
St. Paul, MN 55102-1390 U.S.A.

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STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal. Do not store on side or inverted position.
Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinseate 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.
Pathways Solid Drain Sanitizer
Net Contents: 12 solid 4" rings
Net Weight: 1.6 lb/0.73 kg

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: CORROSIVE. Causes irreversible eye damage and burns to skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield or safety glasses. Wear protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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 a 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.

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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.

FOR INDUSTRIAL USE ONLY
EPA Reg. No. 1677-134
PA Est. No: 58046-TX-1 (C), 58046-TX-2 (C), 1677-CA-2 (C), 74010-NJ-001 (C), 1677-PR-1 (B), 1677-MN-1 (P), 1677-TX-1 (D), 1677-OH-1 (H), 303-IN-1 (L), 1677-IL-2 (J), 1677-WV-1 (V), 1677-GA-1 (M), 1677-CA-1 (S)
Superscript refers to first letter of date code.
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