

ProOXINE®

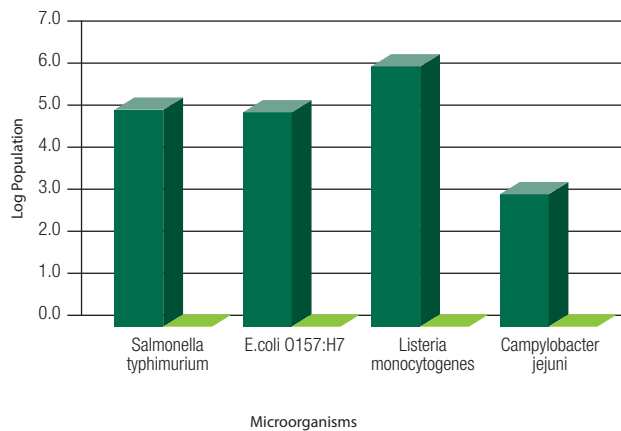
The Ultimate Professional Strength Antimicrobial Product for the Food Processing Industry



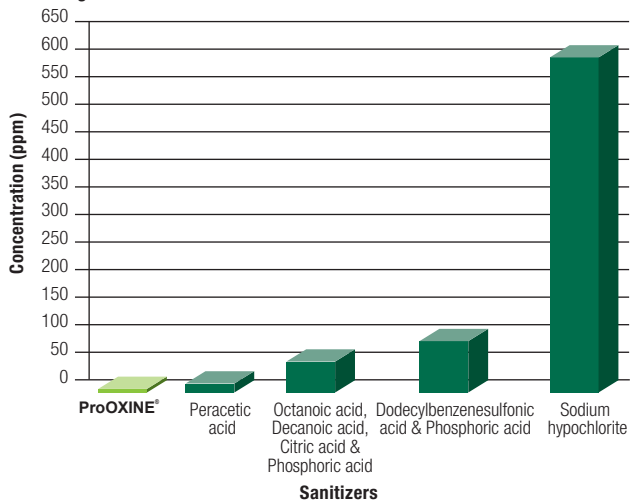
ProOXINE® is the most effective, fast-acting, broad-spectrum antimicrobial designed for application by professionals.

ProOXINE® is a highly refined blend of oxychloro species containing purified sodium chlorite. When activated, chlorine dioxide is produced, which provides ProOXINE® its powerful antimicrobial activity. With applications in the food processing and water treatment industries, ProOXINE® displays broad-spectrum antimicrobial activity; it is proven effective against all major pathogens of concern, including *E. Coli O157:H7*, *Salmonella*, *Listeria*, *Staphylococcus* and *Pseudomonas*, among others. ProOXINE® is especially suited for the removal and control of biofilm. ProOXINE® is EPA registered and FDA approved. ProOXINE® is approved organic by Organic Materials Review Institute (OMRI). ProOXINE® is trusted by inspectors as part of a successful HACCP Compliance program.

ANTIMICROBIAL EFFICACY OF ProOXINE®



CONCENTRATION OF SANITIZERS REQUIRED for >5 log reduction of E.coli O157:H7 in 60 seconds



ProOXINE® has been shown to be more effective than other common sanitizers, including quaternary ammonia, Iodophors, Peracetic acid, and sodium hypochlorite (chlorine). ProOXINE® provides a comprehensive antimicrobial intervention program.



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 Bio-Cide International is ISO 9001:2008 certified



BENEFITS

- Ultra high, broad spectrum antimicrobial activity
- Uniquely effective against biofilm
- Effective over a broad pH range (1-10)
- Low corrosion potential
- Resists neutralization due to organic load
- Completely soluble in water
- Does not chlorinate (no THM formation)
- Long lasting antimicrobial activity
- Excellent deodorant
- No effect on organoleptic properties
- No effect on nutritional quality
- KOSHER certified
- Economical to use
- Can be used with automated delivery systems
- Safe for applicators (PPE required)
- No unusual stipulations on storage
- Organic certified



ACTIVATION

Activation

ProOXINE[®] requires activation for on-site generation of chlorine dioxide. Activation involves lowering the pH of the concentrate with any GRAS acid. Activation may be accomplished with BCI's hands-free, cost efficient AANE[™] unit, the Wall Mount Activation System[™], or the on-line activation system OLAS[™] Ti, which combines activation of ProOXINE[®] with simultaneous injection into water streams.



AANE[™]



Wall Mount Activation System[™]



OLAS[™] Ti

APPLICATIONS

Primary uses in Food Processing Plants, Dairies, Breweries and Beverage Plants are:

- No-rinse sanitation of all food contact surfaces
- CIP sanitizing of processing lines
- Water additive to pasteurizers, bottle warmers and coolers
- Water systems disinfectant for biofilm removal and control
- Bacterial, mold and odor control throughout the facility
- Sanitation of cold rooms, freezers and spirals
- Microbial control in sweet water & recirculating cooling water systems
- Sanitation of filler head assemblies
- Deodorization of rendering areas
- Footbath and door spray bacteriostat
- Sanitation of tank trucks and rail tankers
- Antimicrobial additive for all compatible conveyor and chain lubricants
- Disinfection of condensate pans and drip lines
- Washing of Fruit and Vegetables
- Flume water for treatment for bacteria, slime and odor control.
- Sanitizing rinse

PRODUCT SPECIFICATIONS

- Concentration: 5.0 - 5.2% available chlorine dioxide
- Appearance: Colorless liquid
- pH Concentrate: 8.5 - 9.0
- Boiling point: 221° F (105° C)
- Melting point: N/A
- Freezing point: 25.2° F (-3.78° C)
- Vapor Pressure: 23.7 mm Hg (25° C)
- Vapor Density: 0.02 kg/m³
- Specific Gravity: 1.06 - 1.10 g/ml (20° C)
- Volatiles (none): 97% water
- Solubility in water: Complete
- Evaporation rate: Comparable to water
- Very low acute toxicity (EPA Cat III)
- Non-Flammable, Non-Explosive
- Stable Solution
- NFPA Rating: Fire: 0 Health: 1 Reactivity: 1 Special: None



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