

OXINE® Horticulture

Proven waterborne plant pathogen control for the Horticulture Industry

OXINE® is a state-of-the-art formulation that controls plant pathogens in irrigation waters throughout the facility. The unique and proprietary blend of oxychloro compounds in OXINE® provides rapid, effective control of organisms such as Pythium, Phytophthora, and a host of others that affect growers.

OXINE® is uniquely effective against biofilm. It breaks biofilms attachment to surfaces then penetrates and dissolves the biofilm and attacks the organisms within. The normal results are bacteria and biofilm-free pipes, emitters and cooling pads which insures consistent water flow which can mean healthier plants.

OXINE® activation with BCI's patented activation and delivery systems generates a solution containing chlorine dioxide with the following benefits:

- **Efficacious on organisms of concern in horticulture**
- **Superior biofilm control**
- **Ability to enhance water quality**
- **Low corrosion potential**
- **Effectiveness over a broad pH range (1-10)**
- **Resistance against neutralization from organic load**

Applications:

Closed loop systems / Irrigation Systems / Facility disinfection
 Water systems disinfectant for biofilm removal and control.
 Bacterial, mold and odor control throughout the facility.

Organisms Controlled:

Pythium	Erwinia	Colletotrichum
Rhizoctonia	Cylindrocladium	Phytophthora
Ralstonia	Thielaviopsis	Alternaria
Xanthomonas	Botrytis	



Directions for Use:

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

As an antimicrobial for water systems:

- i) This product may be used to disinfect and control biofilm in irrigation and non-potable water at concentrations between 0.25 and 2 ppm available chlorine dioxide. Concentrations and contact times are application specific.
- ii) To prepare 100 gallons of use concentration at 2 ppm, mix 1.28 fl. oz. of Oxine® with 4 grams of citric acid in a plastic container, wait 5 minutes for activation and then dilute with 100 gallons of water.

General disinfectant, sanitizer, algacide, and fungicide for horticulture and greenhouse applications:

- i) This product may be used to disinfect and sanitize hard, non-porous surfaces, to treat and prevent algae, fungus, bacteria, and biofilm at concentrations between 50 to 200 ppm available chlorine dioxide.
- ii) To prepare 10 gallons of 200 ppm disinfectant solution, place 12.8 fl. oz. of Oxine® in a plastic container and mix with 40 grams of citric acid. Wait 5 minutes for activation and then dilute into 10 gallons of water.

Alternatively, Bio-Cide International, Inc. automated activation equipment can also be used.



Exceptional Chemistry • Extraordinary People
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 Bio-Cide International is ISO 9001:2008 certified

Concentrate Properties

Concentration: 2.0 - 2.1% available chlorine dioxide
Appearance: Colorless liquid
Odor: Very faint chlorinous odor
pH Concentrate: of 8.2 – 8.5
Freezing point: 25.2 °F (-3.78 °C)
Solubility in water: Complete
Evaporation rate: Comparable to water
Very low acute toxicity (EPA Cat. III)
Non-flammable, non-explosive, stable solution

Activation

Activation involves lowering the pH of the concentrate with phosphoric, hydrochloric or any other acid. Activation may be accomplished manually for low volume batch applications.

Concentration Test Kit

Concentration of Oxine® in process waters can be conveniently monitored using BCI's Oxine® Test Kit.



AANE™
(Automated, Activation, Non-Electric)

Inexpensive, hands-free activation 15 to 55 gallons. Only one water connection required, economical.



EDIE™
(Electric • Dual Injector - Enclosed)

(Mid range volume generator) Adjustable concentration for mid-range applications. Adjustable & accurate control up to 300 GPM. Concentrations from 1 - 50 ppm.



TITAN™
(High Volume Generator)

Adjustable concentration injection for high-volume applications. Adjustable & accurate control up to 90 GPM. Concentrations from 1 to 1200 ppm.



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