

FRONT  
6.375" x 7.75"

# FORTIFY CLEAR

## DISINFECTANT

EPA Reg. No. 88341-8-89112

EPA Est. No. 72852-IL-1

**ACTIVE INGREDIENT:**

CHLORINE DIOXIDE .....	0.30%
INERT INGREDIENTS .....	99.70%
TOTAL .....	100.0%

*Fortify Clear contains 3,000 ppm (3,000 mg/liter) chlorine dioxide.*

**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**

*Please see back panel for additional precautionary statements.*



**RX GREEN**  
TECHNOLOGIES

5 GALLONS | 640 FLUID OUNCES (18.9 L)    55 GALLONS | 7040 FLUID OUNCES (207.9 L)  
NET WEIGHT: 42.98 LBS/19.5 KG    NET WEIGHT: 472.73 LBS/214.5 KG

**DENSITY: 8.595 LBS/GALLON @ 68 DEGREES F**



v1.1

# FORTIFY CLEAR<sub>DISINFECTANT</sub>

This product is intended for the purification of water which has been treated in accordance with the Safe Drinking Water Act (SDWA), such as that provided by municipal water treatment facilities. Intended applications include: Treatment of Potable Water and Cooling Water in Commercial Office Buildings, and Residential Buildings. Treatment of Industrial Process Water, Human Potable Water Systems, and Process Water Systems, and Control in slime in Cooling Towers.

## DIRECTIONS FOR USE

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

Fortify Clear is a chlorine dioxide product designed to purify water which has previously been treated in accordance with the Safe Drinking Water Act (SDWA) including: potable water and cooling water in commercial office buildings, residential buildings and industrial process water. Fortify Clear also is designed to control slime in cooling towers. Pathogenic organisms controlled include Raoutella Terrigena, Poliovirus and Rotavirus. Concentration and contact times are application specific. Minimum contact time for control of listed pathogenic organisms is 5 minutes.

**Carefully read and follow the instructions for the Fortify Clear dosing equipment provided by the manufacturer or its authorized agent.**

Fortify Clear is intended for use in water systems which use as their source treated municipal water including:

- Public buildings
- Office Buildings
- Residential Buildings

Fortify Clear may be used to treat water that is not subject to the SWDA for use as non-potable water or water not intended for human consumption.

**Minimum contact time for control of listed pathogenic organisms is 5 minutes.**

**NOT FOR USE IN CALIFORNIA**

## Horticultural Premises and Equipment

### DISINFECTION, ALGAECIDE AND FUNGICIDE FOR HORTICULTURAL AND GREENHOUSE

For horticultural applications, this product may be used to disinfect (250 ppm for 10 minutes-a dilution ratio of 1:12) to treat, control and prevent funguses, bacteria, and algae, slimes, rusts, leaf spot and mildews; and to remove slimes (50 ppm for 12 hours continuous treatment-dilution ratio of 1:60) and inhibit reemergence (0.25 ppm continuous treatment-dilution rate of 12000:1) in irrigation and other nonpotable water systems.

#### \* TREATMENT OF HORTICULTURE WORK AREA AND BENCHES

Remove all gross filth and soil and thoroughly clean all surfaces with soap or detergent and rinse with clean water. Add Fortify Clear to water to make the chlorine dioxide 250 ppm (dilution ratio of 1:12). Using a commercial sprayer, saturate all surfaces with the diluted Fortify Clear. Allow surfaces to remain wet for at least 10 minutes. The diluted Fortify Clear may be irritating if inhaled. For spraying operations, user must wear a half-face respirator with acid gas cartridge and N95 filter.

#### \* TREATMENT OF HORTICULTURE POTS AND FLATS

Remove all gross filth and soil and thoroughly clean all surfaces with soap or detergent and rinse with clean water. Add Fortify Clear to water to make the chlorine dioxide 500 ppm (dilution ratio of 1:6) Using a commercial sprayer, saturate all surfaces with the diluted Fortify Clear. Allow surfaces to remain wet for at least 10 minutes. The diluted Fortify Clear may be irritating if inhaled. For spraying operations, user must wear a half-face respirator with acid gas cartridge and N95 filter.

#### \* TREATMENT OF HORTICULTURE CUTTING TOOLS

Remove all gross filth and soil and thoroughly clean all surfaces with soap or detergent and rinse with clean water. Add Fortify Clear to water to make the chlorine dioxide 250 ppm (dilution ratio of 1:12). Immerse tools in diluted Fortify Clear or spray to saturate all surfaces. Allow surfaces to remain wet for at least 10 minutes. The diluted Fortify Clear may be irritating if inhaled. For spraying operations, user must wear a half-face respirator with acid gas cartridge and N95 filter.

#### \* TREATMENT OF GREENHOUSE GLASS, WALKWAYS AND UNDER BENCH AREAS

Remove all gross filth and soil and thoroughly clean all surfaces with water. Add Fortify Clear to water to make the chlorine dioxide 125-250 ppm (dilution ratio of 1:24-1:12). Using a commercial sprayer, saturate all surfaces with the diluted Fortify Clear. Allow surfaces to remain wet for at least 10 minutes. The diluted Fortify Clear may be irritating if inhaled. For spraying operations, user must wear a half-face respirator with acid gas cartridge and N95 filter.

#### \* TREATMENT OF EVAPORATIVE COOLERS

Remove gross filth or soil with a water wash. Spray the area with 125-250 ppm chlorine

dioxide (dilution ratio of 1:24 -1:12) for 5 minutes. Wet all surfaces and allow to dry. The floors should be mopped with a solution containing 400 ppm (400 mg/liter) chlorine dioxide (a dilution ratio 1:7.5). Allow Fortify Clear to air dry on floor.

## TREATMENT OF RETENTION BASINS AND PONDS

Add Fortify Clear to the water at a dose of 2-5 ppm (2-5 mg/liter) chlorine dioxide (a dilution ratio 1:15001:600), and circulate or let stand overnight. Drain and rinse with clean water before reuse. To prevent slime growth after initial treatment, add Fortify Clear to the water at a dose of 5.0 ppm (5.0 mg/liter) chlorine dioxide (a dilution ratio of 1:600). Do not use where fish are present.

## SHOE BATH USE

Add Fortify Clear to shoe bath water to make the chlorine dioxide 1-5 ppm solution (dilution ratio of 1:3000-1:600) of shoe bath water. Change shoe bath solution daily or when solution appears soiled.

## Commercial, Institutional and Industrial Premises and Equipment

### GENERAL DISINFECTANT

This product may be used to disinfect (100 ppm for 10 minutes-a dilution ratio of 1:30) to treat, control and prevent funguses, bacteria, and algae, slimes and mildews; and to remove slimes (50 ppm for 12 hours continuous treatment-dilution ratio of 1:60) in non-potable water systems.

*Note: Chemical feed pumps and injectors must be chlorine resistant for best operation. Available chlorine dioxide levels should be confirmed using an approved chlorine dioxide test kit.*

## Industrial Processes and Water Systems

### TREATMENT OF COOLING WATER SYSTEMS, PROCESS WATER SYSTEMS, FLUME WATERS AND COOLING TOWERS TO CONTROL SLIME

Add Fortify Clear to the water at a dose of 50 ppm (50 mg/liter) chlorine dioxide (a dilution ratio 1:60), and circulate or let stand overnight. Drain and rinse with clean water before re-use. To prevent slime growth after initial treatment, add Fortify Clear to the water a dose of 2.0 to 5.0 ppm (2.0 to 5.0 mg/liter) chlorine dioxide (a dilution ratio of 1:1500 to 1:600). 2-5 ppm dose may be fed intermittently or continuously.

### REVERSE OSMOSIS, \*NANOFILTRATION, AND \*ULTRAFILTRATION MEMBRANES TO CONTROL SLIME-FORMING ALGAE

Using typical oxidizing agents on these membranes can cause irreparable damage due to the presence of free chlorine. However, testing has shown total chlorine content of Fortify Clear is less than 10 ppm, thus it is possible to use diluted Fortify Clear upstream of the membrane without damaging the membrane. Depending on the quality of the water, continuous dosage rates between 0.1 ppm and 0.5 ppm of Fortify Clear will be sufficient to prevent biofilm fouling of the membrane. A dosage rate above 0.5 ppm may adversely affect the membrane due to the oxidation strength of Fortify Clear. The variation depends on the feed water composition and the amount of organic material present in the feed water. The appropriate dosage rate must be determined by laboratory testing.

**Caution:** The dosage rate of Fortify Clear should never exceed a level of 0.5 ppm and should always be a minimum of 0.1 ppm. While using Fortify Clear there will be no increase in the amount of salts passing through an RO membrane. This is a valid indicator that the membrane is not damaged. An automatic sensor should be used to regulate the Fortify Clear level in the system. Either a chlorine dioxide sensor or potentiostatic analyzer with the ability to measure in the level of sub-part per million should be used. To avoid damage to the membrane, the dosing system to inject Fortify Clear into the feed water should be controlled by the monitoring sensor and should automatically stop dosing if levels exceed the maximum levels. Appropriate testing by the customer is recommended. Fortify Clear can be used in the permeate for normal disinfection control and replace existing disinfectants (e.g. chlorine). Follow label directions for either potable or non-potable water.

**Care should be used when using Fortify Clear on cellulose-based membranes. Be sure to always use a very dilute solution. Never use undiluted Fortify Clear solution. Fortify Clear should never be used with Ion Exchange resin or EDI membrane systems. This product is not for kidney dialysis equipment.**

**NOTE:** Do not add Fortify Clear in the presence of sodium bisulfite or any other reducing agent which may be added to the feedwater to avoid neutralization of the active ingredient.

0.300" Hinge

BASE  
6.375" x 7.75"

# FORTIFY CLEAR DISINFECTANT

## Residential and Public Areas

\* DEODORIZER FOR RESTROOMS/BATHROOMS, REFUSE CONTAINERS, STORAGE LOCKERS

Thoroughly clean all surfaces before treatment. Add Fortify Clear to water to make the chlorine dioxide 50 ppm (dilution ratio of 1:60). Spray the diluted Fortify Clear using a suitable spraying device onto walls, ceiling, floors, and surfaces, until lightly damp. The diluted Fortify Clear may be irritating if inhaled. For spraying operation, user must wear a half-face respirator with acid gas cartridge and N95 filter. Allow surfaces to air dry and then ventilate the area. Treat as required.

## Ventilation Systems

### TREATMENT OF VENTILATION SYSTEMS

To treat non-porous hard surfaces for odor causing bacteria associated with ventilation and air conditioning duct work in residential and commercial settings. Prior to inspecting, cleaning, treating or working on a ventilation system or its components, the system must be turned off or disconnected from any part of the system not isolated.

Mechanically clean, vacuum, or blow free of dirt, dust, mold and debris all duct work using a commercial duct cleaning system or service prior to treatment. The air ducts to be treated must be mechanically sound and free of air leaks.

Add Fortify Clear to the water at a dose of 500 ppm chlorine dioxide (a dilution ratio 1:6). Prepare in a well-ventilated area. Spray on surfaces, keep wet for 10 minutes, and allow to air dry. The diluted Fortify Clear may be irritating if inhaled. For spraying operations, user must wear a half face respirator with acid gas cartridge and N-95 filter.

### TREATMENT OF INDUSTRIAL AIR WASHERS, HUMIDIFIERS, AND EVAPORATIVE COOLERS

Fortify Clear should be added to the air washer sump with the use of a metering pump. Fortify Clear can be added on a continuous basis or intermittently as necessary to maintain control. For the control of bacteria and fungi in industrial air washer systems add at a rate of 1-5 ppm (1-5 mg/L), a dilution ratio of 1:3000 to 1:600.

NOTE: For use only in industrial air washer systems that maintain effective mist eliminating components.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

**Caution.** Causes moderate eye irritation. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Handlers applying chlorine dioxide in an occupational setting must wear appropriate chemical resistant gloves. People must vacate the premises during spraying treatments. (For spraying operations) User must wear a half-face respirator with acid gas cartridge and N95 filter.

## ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms. 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 the 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.

## PHYSICAL AND CHEMICAL HAZARDS

Chlorine dioxide is a strong oxidizing agent. Contamination with materials such as acids, chlorine, and organic chemicals may cause a chemical reaction resulting in evolution of chlorine dioxide and heat explosion and/or fire could result. Keep all chemicals and foreign material away from this solution.

## WARRANTY

Rx Green Technologies warrants that this product complies with the specifications expressed on the label. To the extent consistent with applicable law, Rx Green Technologies makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose.

## FIRST AID

IF IN EYES	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"><li>• Remove contaminated clothing.</li><li>• Rinse exposed skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor immediately for treatment.</li></ul>
IF SWALLOWED	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
IF INHALED	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

**HOTLINE NUMBERS:** For chemical spill information call CHEMTREC: 1-800-424-9300. For emergency medical information, call the National Pesticide Information Center at 1-800-858-7378. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

## NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate for the use of gastric lavage.

Fortify Clear is tested and certified by WQA according to NSF/ANSI 60

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep containers tightly sealed when not in use. Store in original container in a dark, dry place away from extremes of heat or freezing conditions. Do not store with easily oxidizable materials, acids, bases, or combustible materials.

This product is to be used as directed within 9 months of the manufacture date indicated on the front panel of this label.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of pesticide, prepared solutions, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying (For product 5 gallons or less) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container with 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times (For product containers greater than 5 gallons) Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by local and State authorities, by burning. If burned, stay out of smoke.