

FORTIFY CLEAR

DISINFECTANT



Fortify Clear Disinfectant is a liquid chlorine dioxide product for use in irrigation systems and cleaning hard surfaces. This product is safe to use with in-line fertigation systems and direct applications to clean and disinfect hard surfaces.

Chlorine dioxide is the preferred alternative to other options such as ozone, chlorine bleach, hydrogen peroxide and peracetic acid. Compared to these other options, a chlorine dioxide application is far less corrosive and much safer for the environment.



CHLORINE DIOXIDE ADVANTAGES

- ✓ Destroys biofilm quickly and efficiently.
- ✓ Highly effective against bacteria, viruses, protozoa, mold, algae, odor etc.
- ✓ EPA, FDA, NSF certified.
- ✓ Safe, ready-to-use ClO₂ concentrated solution.

APPLICATION RATES

| PURPOSE | TARGET ClO ₂ PPM | DILUTION RATE | VOLUME (mL/gal) | VOLUME (oz/gal) |
|--------------------------------|-----------------------------|---------------|-----------------|-----------------|
| Soaking | 50 | 1:60 | 63 | 2.1 |
| Sanitizing drip lines | 250 | 1:12 | 315 | 10.7 |
| Irrigation system maintenance* | 0.25 | 1:12000 | 0.3 | 0.01 |

SAFETY INSTRUCTIONS

- When handling Fortify Clear Disinfectant, protective gloves should be worn. Although this does not contain acid, ClO₂ can absorb through the skin so contact should be avoided/minimized.
- Whenever a container of Fortify Clear Disinfectant is opened, the individual should wear at a minimum a cartridge respirator to avoid irritation from any ClO₂ gas that escapes the container.
- Goggles should be worn to prevent splashes from entering the eyes.
- Dispensing of Fortify Clear Disinfectant should take place in a lab hood or well-ventilated area.
- If a container of Fortify Clear Disinfectant must be left open (for pumping or other operations) a vent or hood should be used to prevent ClO₂ gas from accumulating in the nearby surroundings.
- Do not heat ClO₂ solutions above 90°F and never use an open flame to heat the solution.

DOSING INSTRUCTIONS

- Add 1 mL of Fortify Clear Disinfectant to 3 L of water for every ppm of dosage desired (e.g. 3 mL in 3 L is a 3 ppm dosage).
- Inject ClO₂ under the surface of the liquid to be treated to prevent gas off.
- Store Fortify Clear Disinfectant in a cool dark place to prevent ClO₂ degradation.

*Concentrated stock tank ratios

| Irrigation System Maintenance -- Stock Tank Mixing Rates | | | | | | | |
|--|------|-------|-------|-------|-------|--------|--------|
| INJECTION RATIO | 1:10 | 1:100 | 1:250 | 1:500 | 1:750 | 1:1000 | 1:3000 |
| FORTIFY CLEAR (oz/gal) | 0.1 | 1.0 | 2.5 | 5.0 | 7.6 | 10.1 | 30.4 |
| FORTIFY CLEAR (mL/gal) | 3 | 30 | 75 | 150 | 225 | 300 | 900 |