

Agricultural TwinOxide® applications

Below we send you an overview of various TwinOxide® applications in practice . All dosage rates mentioned are benchmarked into a practical situation but we advise you to consider the dosage rates to be an indication that must be verified per situation.

We are confident that this information contributes to your mark expansion with TwinOxide®!

- LIVESTOCKAPPLICATIONS

- *DAIRY*
- *HOGS*
- *POULTRY*
- *FISH*
- *MEAT PROCESSION*

- *CROPS&IRRIGATION*
- *HORTICULTURE*
- *WINEPRODUCTION*
- *GENERALDISINFECTION*

LIVESTOCK APPLICATIONS ; POULTRY

POULTRY DRINKING WATER DISINFECTION:

Mix TwinOxide according to label directions to create a 3,000 ppm solution. Use a dosing pump to inject a diluted solution of TwinOxide® into the water system.

Stage 1: Depending on the age and maintenance history of the pipe network, this stage requires from 1 to several weeks to fully break down the biofilm layer in the pipe infrastructure. Start with a concentration of 1.0 ppm at the dosing point. Minimal TwinOxide® will be detected at the drinking-end of the system during this phase as the TwinOxide® is consumed to oxidize biofilm. Older systems may require a longer period of exposure to the initial concentration to remove the biofilm build-up. Stage 2: After initial disinfection, the biofilm structure is weakened sufficiently to allow a lower dose of between 0.5 to 1.0 ppm for a period of 2 to 3 weeks, and in cases of high contamination, as long as 8 weeks. . During this period of disinfection, the entire distribution system is completely cleaned of soft biofilm. A very low dose of TwinOxide® is measurable at the drinking nozzles during this time period. Bacteria counts should be performed every 3 to 4 days to measure the bacterial load of the water at drinking points. Stage 3 progresses to the maintenance dosage to keep the drinking water disinfected and prevent the re-colonization of biofilm within the pipe system. This dose is between 0.1 ppm to 0.2 ppm (in cold climates). At drinking points, a minimal residual of TwinOxide® (< 0.1 ppm) is acceptable.

FARM APPLICATIONS: Continuous on-line water dosing.

Make up TwinOxide® stock solution of 3,000 ppm per label instructions using tap water. Use a dosing pump to deliver at a rate of 0.1 to 0.2 ppm.

EGG HANDLING: Hatching Egg Fumigation:

Make up TwinOxide® per label instructions using tap water. Fill fogger per fogger manufacturer's instructions. Fog until a complete coverage has been obtained without soaking the eggs. The dosage rate may vary between 0.1 ppm and 0.5 ppm. For sterilizing food eggs, the sanitizer temperature should not exceed 130°F. Spray TwinOxide® at 0.1 ppm so the eggs are completely wet. Dry the eggs completely before packaging or breaking. Do not apply a potable water rinse.

INCUBATOR HUMIDIFICATION SYSTEMS:

Make up TwinOxide® per label instructions using tap water to make a stock concentrate at 3,000 ppm. For manual dilution: Dilute to a solution of 1.0 ppm by adding 1 part TwinOxide® to 2,999 parts water. For automated dilution: Fit dosing pump to humidification water supply line and set at 1.0%.

DISINFECTION OF BARNs & POULTRY HOUSES:

Mechanically clean all litter, bedding, straw, sawdust etc, Make up TwinOxide® per label instructions to create a 3,000 ppm solution. Dilute to 20 to 50 ppm depending on the degree of contamination. Do not mix TwinOxide® with acid cleaners. Wash, scrub/spray all exposed areas including floor, walls, ceiling posts and support beams. Expose all surfaces to spray for a minimum of 2 minutes. Rinse with clean water. Dry before housing animals.

SANITIZING TRANSPORTATION, LOADING AND HAULING EQUIPMENT:

Ship containers, railroad cars, railroad tank cars, trucks, truck trailers, loading chutes, re-useable crates and other equipment for transportation of animals, meat, produce, vegetables, should be cleaned and disinfected prior to use. Make up TwinOxide® per label instructions to create a 3,000 ppm solution. Dilute to 20 to 50 ppm depending on the degree of contamination. Do not mix TwinOxide® with acid cleaners. Wash, scrub/spray all exposed areas. Pressure-spray or scrub with solution. Expose all surfaces to spray for a minimum of 2 minutes. Rinse with clean water. Dry before use.