

OPEN CHANNEL IRRIGATION CONVEYANCE SYSTEMS AND CHEMIGATION SYSTEMS, ETC. - TO PREVENT ALGAE GROWTH USING CONTINUOUS FLOW SYSTEMS

General Information

USE INFORMATION

AgriTec 2 is a highly soluble formulation. AgriTec 2 is used to control algae and to suppress nonpublic health bacteria and bacteria that cause taste and odor problems in impounded waters, lakes, ponds, lagoons, wastewater lagoons, reservoirs and livestock watering systems.

AgriTec 2 is used to control algae and to suppress nonpublic health bacteria and bacteria that cause taste and odor problems in irrigation conveyance systems, irrigation reservoirs, irrigation canals, ditches and chemigation systems.

AgriTec 2 is used to control algae and to suppress nonpublic health bacteria and bacteria that cause odor problems in aquacultural ponds.

AgriTec 2 is used to suppress nonpublic health bacteria and bacteria that cause odors (such as odors from hydrogen sulfide and ammonia gas) in feedlot run-off lagoons, animal waste or confinement pits and organic sludge pits.

USE IN CONTROL OF ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS

For algae control, apply in the late spring or early summer when algae first appear. The dosages are variable and depend upon algae species, water hardness, water temperature, amount of algae present, as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperature above 60 degrees F (15.6 degrees C). Higher dosages are required at lower water temperatures, higher algae concentrations and for hard waters. See Specific Directions for Use. Application should be done by pouring a measured amount of AgriTec 2 directly from a container into the lakes, ponds, reservoirs or irrigation canals. AgriTec 2 is very soluble and will quickly disperse. AgriTec 2 application for 3 acres or more should be applied at several points in the ponds, lakes or

reservoirs. Larger bodies of water can be treated with AgriTec 2 by dragging a feeder hose behind a boat across the body of water. This will speed up the dispersal of the product to give a quicker control of algae. AgriTec 2 will quickly diffuse throughout the water body in several hours. AgriTec 2 should be applied to irrigation by a drip system or feeder pump according to the flow volume. Use higher dosages for chara, nitella and filamentous algae and lower dosages for planktonic algae. If there is uncertainty about the dosage begin with the lower dosage and increase until control is achieved or until the maximum allowable level has been reached. See Specific Directions for Use.

Treatment of algae can result in oxygen loss from the decomposition of dead algae. This loss can cause fish suffocation. If the algae cover more than 1/3 of the total water area, treat in sections. Treat 1/2 of the water area in a single operation and wait for 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze to prevent masses of decaying algae under an ice cover. Before treating bodies of water, consult proper state authorities such as the fisheries commission or conservation department to obtain any necessary permits. For use in controlling algae and cyanobacteria at all aquatic application sites do not exceed a copper concentration in water of 1.0 ppm of metallic copper concentration.

For example, if you wish to achieve 1.0 ppm of metallic copper, 1 gallon of AgriTec 2 added to 60,000 gallons of water is equal to 1.0 ppm metallic copper. In order to attain 1.0 ppm of metallic copper in the treated water, the amount of AgriTec 2 added to a water body is equal to the gallons of water being treated divided by 60,000 multiplied by 1 (e.g., see Gallons of AgriTec 2 and Water table on the label). Use volumetric measurement devices that are calibrated in accordance with manufacturer specifications.

Use formula for calculating water volume and flow rates. Calculate the volume of water (multiply the average depth by surface area). To calculate the gallons of water multiply the volume in cubic feet times 7.5. One cubic foot per second of flow equals 27,000 gallons/hour. One acre foot equals 326,000 gallons. See label for additional directions on methods of application to flowing water.

Limitations, Restrictions, and Exceptions

USE IN CONTROL OF ALGAE, NONPUBLIC HEALTH BACTERIA, AND BACTERIA THAT CAUSE ODOR PROBLEMS

- In open channel irrigation conveyance systems and chemigation systems, ditches, canals and similar irrigation conveyances: To prevent algae growth using continuous flow systems, a metered flow rate of 1 milliliter per minute is added to a pumping flow of 267 gallons per minute to yield a rate of 0.06 ppm metallic copper. If algae are present, do not exceed the total dose of 1 gallon of AgriTec 2 in 60,000 gallons of water (1.0 ppm

metallic copper). See Example Calculation table on the label for continuous flow rates.

Method

[Directed](#)

Rates

[field_rates 0](#)

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Timings

[For algae control, apply in the late spring or early summer when algae first appear.](#)