

# 1502 SERIES

ALGAE CONTROL / WATER CLARITY

POWDERS

## OVERVIEW

Algae survive, grow and reproduce by feeding off of the nutrients – nitrogen potassium and phosphorous – in the water. There are a variety of algae that differ in make-up and size. Unmonitored growth of these species can degrade water quality – low oxygen levels and sunlight unable to penetrate the algae scum on the surface. This poses threats to other organisms in the water like fish, plants and other aquatic life. In addition, algae growth makes it increasingly difficult for treatment plants to meet effluent permit limits.

Introduce RBT 1502 into the pond, lagoon, lake, etc. to prevent these periods of excessive algae growth. RBT 1502 uses bioaugmentation, a non-chemical and natural method - to remove the nutrients that are vital to algae growth. The microbes that are introduced ingest carbon, phosphorous, potassium and nitrogen at an accelerated rate, which limits the nutrients available for algae to consume. This control by competitive inhibition increases water clarity, reduces sludge and promotes overall better health for the aquatic environment.

Use of RBT 1502 also aids treatment plants in meeting effluent regulations with decreased use of aerators. While proper aeration is important to enhance the effectiveness and longevity of microbial bioaugmentation and nutrient deactivation applications, treatment plants will learn that the decreased use of aerators will save on energy costs.

## APPLICATIONS:

- | LAGOONS
- | PONDS
- | LAKES
- | WASTEWATER PLANTS
- | HOLDING TANKS
- | OXIDATION DITCHES
- | ACTIVATED SLUDGE

## ADVANTAGES:

- | IMPROVES WATER CLARITY AND NUTRIENTS THAT ENCOURAGE ALGAE & DUCKWEED GROWTH
- | ENHANCES BOD/COD REMOVAL
- | REDUCES HYDROGEN SULFIDE
- | COST-EFFECTIVE & EASY TO USE
- | INCREASES SYSTEM EFFICIENCY
- | CONTAINS NO CHEMICALS
- | ELIMINATES MALODORS AT THEIR SOURCE
- | BREAKS DOWN FAT & GREASE BUILDUP
- | DEGRADES A WIDE RANGE OF COMPLEX ORGANICS

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## DOSING INSTRUCTIONS:

**SHOCK DOSE:** Apply at first appearance of algae at a rate of 6-8 lbs. per acre-foot x 5 doses over a two week period. Apply evenly over affected area. **MAINTENANCE DOSE:** Apply at a rate of 4 lbs. per acre-foot 1-2 times per week. **PREVENTATIVE DOSAGE:** Apply at a rate of 2 lbs. per acre-foot, beginning in the spring throughout the warm months. In warmer climates you can treat ponds and lagoons year round. If fertilizer is applied to surrounding areas, double the dosage rate for 2 weeks.

**Note:** For colder climates Lagoon and Pond treatment program should begin when the water temperature is above 50 Degrees Fahrenheit.

## TARGETED COMPOUNDS

- I NUTRIENTS REQUIRED FOR ALGAE, DUCKWEED AND OTHER SIMILAR PLANT GROWTH
- I SLUDGE VOLUME
- I CELLULOSE
- I WASTE DIGESTANTS

## STRAINS

- I MULTI-STRAIN SPORE BLEND

## TYPICAL PROPERTIES

- I APPEARANCE ..... TAN POWDER
- I FRAGRANCE ..... MILD
- I FORM ..... POWDER
- I SHELF LIFE ..... 24 MONTHS
- I EFFECTIVE pH range..... 5.0 – 10.0
- I EFFECTIVE TEMPERATURE RANGE..... 34-120 DEGREES F

## BACTERIA CONCENTRATION

- I 5.1 Billion CFU/g

## PACKAGING

- I 30, 50, 100, 400 AND 2,000 LB. CONTANERS
- I ALSO AVAILABLE IN 2 OZ., 4 OZ., 8 OZ., AND 16 OZ. WATER-SOLUBLE BIO-PACKETS