

POLYDEX™ NSF

Mineral Based Bacteriostatic Algaecide with both Curative and Preventive Characteristics

For Dugouts, Water Tanks, Ponds, Lagoons and more.....



Livestock water

- ❖ **A Certified Bacteriostatic Algaecide for broad farm applications.**
- ❖ **Keep water storage tanks clean and algae free**
- ❖ **Control microorganisms using minute amounts of mineral ions.**
- ❖ **Improve the colour, taste and smell of the water.**
- ❖ **No synthetic chemicals, hormones or antibiotics**
- ❖ **Reduce maintenance costs by keeping lines and nozzles free from scale and algae.**
- ❖ **Non-toxic to humans as diluted for use.**



Dugouts & Storage Tanks



BEFORE



AFTER

POLYDEX is registered by Health Canada and certified by NSF International for use to control algae and bacteria in drinking water systems.

When POLYDEX is added to water supplies for drinking (and irrigation) at a ratio of 1:60,000/120,000 it becomes a highly efficient, self-mixing biocide that can control problematic algae and bacteria. POLYDEX at 1:60,000 dilution provides 1 ppm ionized copper. For protection of drinking water use up to 1 ppm ionized copper.

POLYDEX has curative as well as preventative characteristics as it cleans and protects water for extended periods. POLYDEX maintains the copper in cupric ion form, the only form that is effective against microorganisms. This fact distinguishes and differentiates POLYDEX from other copper based products.



Spraying

POLYDEX: HOW IT WORKS

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POLYDEX does not use oxidation as does Ozone and Chlorine and does not produce Trihalomethanes or other potentially harmful secondary organic complexes.

POLYDEX's copper ions accomplish disinfection as a bacteriostatic algacide when the positively charged copper ions form electrostatic bonds with negatively charged areas on the cell walls of micro organisms.

These electrostatic bonds create stresses that lead to distorted cell wall permeability, minimizing the normal intake of life sustaining nutrients.

Once inside the cell of the micro organism, ionic copper reacts with sulphur containing amino acids in the proteins used for photosynthesis (the process of converting light and nutrients into usable food and energy). As a result the target organism can no longer perform photosynthesis which leads to cell lyses (disintegration) and death.

Even if the cell manages to live for a short time, the reproduction process is hampered by the presence of copper ions and the spread of the micro-organism is stopped.

Most undesirable bacteria are killed at low copper ion concentrations whereas important beneficial bacteria being more tolerant to copper will survive.

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1-800-561-5444

Lagoon usage calculation example:

Size: 100 feet long x 30 feet wide X 8 feet deep
= 24,000 cubic feet

Convert cubic feet to cubic meters: 24,000 X 0.0283
= 679 cubic meters

Convert cubic meters to Liters: 679 X 1000
= 679,000 liters of manure

POLYDEX @ 1:60,000: 679,000 L divided by 60,000
= 11.3 liters of **POLYDEX**

EnvirEau Technologies POLYDEX Bacteriostatic Algacide is registered by Health Canada and Certified by NSF International for use in potable drinking water. We invite growers to evaluate POLYDEX in irrigation and service water for controlling micro-organisms, improved plant health, and removing mineral scaling in tanks, lines and sprays.



**P C P Registered
HEALTH CANADA**