

OCION - CORE TECHNOLOGY AND PRODUCTS

OCION Water Sciences Group develops, manufactures and markets environmentally responsible mineral-based products for applications in many industries, including drinking water, agriculture, livestock, and wastewater-treatment. All of OCION's products are designed with both the environment and the end user in mind. The products provide practical, cost-effective, easy-to-handle and environmentally responsible solutions to challenges faced by these industries. These unique products are listed in the table below.

THE OCION ADVANTAGE

OCION's Aqueous Ion Matrix (AIM) technology enhances the natural antimicrobial properties of mineral ions. AIM provides long-lasting stability of active mineral ions in a wide range of water conditions, using only minute quantities of minerals while providing maximum biological efficacy. Because of AIM, OCION products do not precipitate or stratify, unlike many competitor products. Instead, OCION products disperse evenly in water for maximum effectiveness.

HOW IT WORKS

Positively-charged mineral ions in OCION's products form electrostatic bonds with negatively-charged areas around target micro-organisms, the bonding disrupts the cell wall permeability, affecting nutrient intake and eventually leading to cell lysis (disintegration).

Most undesirable micro-organisms are killed at low mineral ion concentrations whereas important beneficial bacteria are more tolerant to copper and will survive .

POLYDEX	Control of algae and reduction of bacteria for potable water reservoirs, lakes, dugouts, decorative water features, tanks and distribution systems. <ul style="list-style-type: none"> ✓ Registered for use in Canada as a bacteriostatic algaecide ✓ Certified by NSF International for use in drinking water
BIODEX	A bacteria regulator, water clarifier and odour control system for organic waste lagoons/grease pits/ organic pits and intensive livestock operations. <ul style="list-style-type: none"> ✓ Registered for use in Canada as a bacteria regulator
BlueMagic	Algae and bacteria control for recreational water bodies i.e. pools/spas/water parks. <ul style="list-style-type: none"> ✓ Registered for use in Canada as a bacteriostatic algaecide
POLYPRO	Algae control for ponds in golf courses/parks/marinas. <ul style="list-style-type: none"> ✓ Registered for use in Canada as a bacteriostatic algaecide

OCION Water Sciences Group is continuing its research on the effect of its ionized minerals on both harmful and beneficial micro-organisms in a variety of environments.

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