

Organocatalytic Irrigation Line Cleaner & Water Conditioner



- ✓ Removes bio-film
- ✓ Increases Water Use Efficiency (WUE)
- ✓ Prevents the build up of scale from iron & calcium
- ✓ Increases dissolved oxygen of water & aerates soils/medium
- ✓ Completely Safe for people, plants, soils and animals
- ✓ Non corrosive, non hazardous to irrigation systems



AquaMate®



HOW IT WORKS

AquaMate® initiates a catalytic breakdown of the bio-films/slime (polysaccharide links), in irrigation systems. Removing blockages and keeps minerals (iron, calcium, magnesium, sodium) soluble in water while improving water use efficiency (WUE).

It is a revolutionary breakthrough in water and soil treatment. In addition to keeping water lines clean and free flowing, AquaMate® increases the dissolved oxygen (DO) of water, enhances the microbial health of soils/& mediums, accelerates plant metabolism, increases WUE, improves growth and supports optimum plant growth, through improving the nutrient and water uptake.

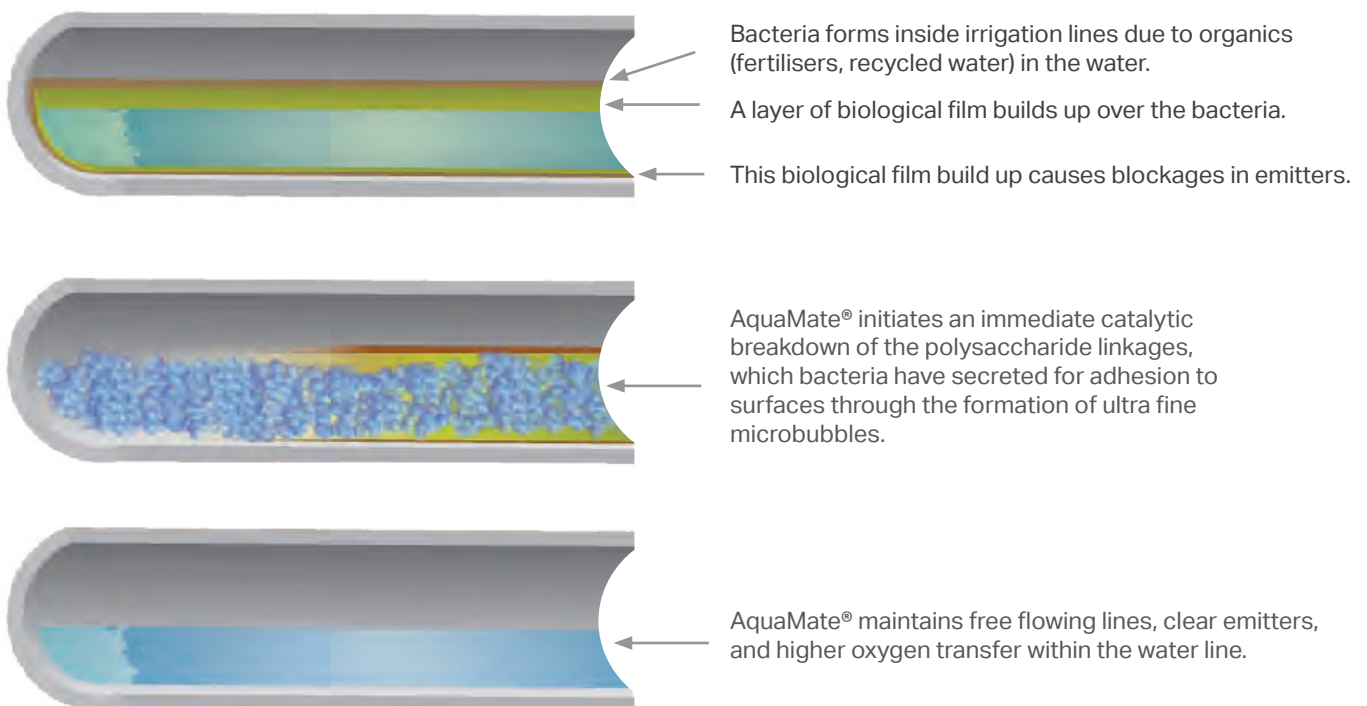
AquaMate® is a novel liquid formulated using patented organocatalyst's, and non-ionic surfactants. It is totally safe for staff, plants, animals and reduces cleaning and maintenance costs.

- Removes biofilm/slime growth in irrigation systems
- Prevents scale and iron deposits to build up in irrigation systems
- Enhances gas transfer of oxygen and increases dissolved oxygen (DO) of water
- Promotes aerobic soil conditions and the health, growth of soil microbiology
- Improves water penetration in hard to wet soils
- Enhances water retention and distribution both vertically and laterally in soils and mediums
- Increases the soil's ability to release nutrients
- Improves plant growth and yield potential

AquaMate® is delivered at very high dilutions through any type of watering system, including hydroponics, pivots, laterals, sprinkler and drip irrigation systems.

Irrigation Line

AquaMate® keeps irrigation lines and emitters free flowing and clear of mineralization and biological film formation.



ECOLOGICAL REMEDIATION FOR OPTIMUM PLANT HEALTH

AquaMate® has the ability to facilitate a more aerobic, and therefore healthy ecological environment in soils and plants, through the reactions of our specially prepared organocatalytic formulation. Aerobic soils are able to optimize the solubility of nutrients within the soil so that they are released and absorbed by the roots in a more efficient manner. This ability produces greater root growth, and an ability to enhance fertiliser uptake, as nutrients are more efficiently transported by the plants.

AquaMate® offers a new ecological model for the irrigation and soil conditions that provide maximum yield potential. The organic linkage of soil water, oxygen and microbes, provides the most efficient transfer of plant necessities to crop production goals.



AquaMate® provides a comprehensive and ecological solution for:

Direct Effects	Indirect Effects
<ul style="list-style-type: none"> Cleaning and maintenance of irrigation lines and systems (removing biofilm, preventing scaling) 	<ul style="list-style-type: none"> Improves soil aerobic microbe activity (nutrient cycling, soil formation, pathogen suppression)
<ul style="list-style-type: none"> Increases aeration of water & soils (dissolved oxygen) 	<ul style="list-style-type: none"> AquaMate® treatment affects the transport of sugars from source to sink organs, resulting in healthier plants, higher yield potential and greater resilience to heat and water stress.
<ul style="list-style-type: none"> Improves water penetration and dispersion in soils. 	



Scan the QR to watch a video showing and explaining the cleaning process and the secondary benefits AquaMate® offers your irrigation system and overall farm production.



Scan this QR code for AquaMate® application rates and product SDS



THE FUTURE OF ECOLOGICAL, SUSTAINABLE AGRICULTURE IRRIGATION

The University of California Davis - Department of Enology and Vinology has recently concluded a three-year study showing that treatment with AquaMate®, in addition to keeping irrigation lines clear of biofilm, also improves carbon transport, accelerates plant metabolism, improves growth and increases yields.



Initial irrigation line cleaning:

Factor	Pressure	Distribution Uniformity
Pre-cleaning	22 b	0.70 b
Post-cleaning	28 a	0.95 a (A value of >0.80 or 80% is considered above average.)



Yields

↑ **39%**

Average Increase Per Season in Yield Over 2 Seasons.



Water use efficiency (WUE)

↓ **0.75 ML**

Over a growing season 0.75 mega litres of water savings and potential energy savings were achieved using AquaMate®.



Nutrient use efficiency (NUE)

Applied fertiliser & soil nutrient uptake (Nitrogen, Potassium, Calcium and Magnesium) increased linearly with the increase in AquaMate® application. Year-over-year, repeatable results were seen with the 10 ppm application rate without detrimental effects on fruit composition.



Soil Biology

AquaMate® applications improved soil biology by 80% over the untreated.

Ingredients

Organocatalyst & Non-Ionic Surfactants. (Patent Number: AU 2013267982)

Seal of Safety

Our commitment is to offer the highest human & bio-aquatic safety products on the market today. Our products are not only completely safe and non-toxic, non-caustic, non-corrosive, but offer a new model for green chemistry that improves the ecological health of ecosystems.

All Organocatalyst's products are produced in the United State and must meet the highest standards of quality.



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