



VpCI® ADDITIVES FOR WATER TREATMENT

# BioClean 610



## PRODUCT DESCRIPTION

BioClean 610 is a coconut oil-based phospholipid product designed for the dispersion and preservation of microbiological growth in water treatment applications. BioClean 610 is an efficient, broad-spectrum antimicrobial agent; capable of eliminating microbiological contaminant growth and maintaining a clean system at low concentrations.

BioClean 610 also boasts an extremely safe, non-hazardous, non-toxic formulation which is completely biodegradable and renewable. It has been awarded USDA BioPreferred<sup>SM</sup> designation. ([www.biopreferred.gov](http://www.biopreferred.gov)) These are characteristics rarely exhibited by other products designed to control microbiological populations in water treatment settings (i.e. cooling towers, and other open loop systems susceptible to contamination). BioClean 610 is so mild to humans that examples of the same technology can also be found in cosmetics and personal care products (e.g. hand cleaners, shampoos, and even baby wipes)!

BioClean 610 is a unique and innovative product, powerful enough to maintain the performance mandated by industry standards, and truly safe for both human and environment.

## FEATURES

- USDA certified biobased product
- Non-toxic, non-hazardous
- Gentle & non-irritating
- Biodegradable and renewable
- Broad-spectrum antimicrobial properties at low concentration
- Contains 58% biobased content

## TYPICAL APPLICATION

BioClean 610 is designed to offer bio-dispersing and preservative properties to water treatment applications susceptible to microbiological contamination.

## PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear to slightly hazy yellow viscous liquid
pH	6.5-7.5 (10% aqueous)
Non-Volatile Content	50-60%
Weight per Gallon	8.8-9.0 lbs/gal (1.06-1.08 kg/l)
Solubility	Complete



## PACKAGING AND STORAGE

BioClean 610 is available in 5 gallon (19 liter) plastic pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk.

BioClean 610 should be sealed before storage. The shelf life is up to 24 months.

## ANTIMICROBIAL ACTIVITY

BioClean 610 can be used to reduce or eliminate the use of classical preservatives to achieve self-preservation strategies with improved skin health benefits. Its performance is not adversely affected by solution pH, anionic or nonionic surfactants, or typical preservative deactivators.

TEST ORGANISIM	ATCC*	TYPE NUMBER	MINIMUM INHIBITORY CONCENTRATION (ACTIVE ppm)
Staphylococcus aureus	538	Gram +	141
Staphylococcus epidermidis	14409	Gram +	141
Streptococcus faecalis	6539	Gram +	141
Bacillus subtilis	6633	Gram +	71
Bacillus cereus	11778	Gram +	71
Micrococcus luteus	4698	Gram +	141
Escherichia coli	8739	Gram -	24
Proteus mirabilis	9921	Gram -	24
Pseudomonas aeruginosa	15442	Gram -	141
Pseudomonas cepacia	2508	Gram -	71
Pseudomonas stutzeri	17591	Gram -	71
Salmonella choleraesuis	10708	Gram -	588
Enterobacter erogenes	13048	Gram -	588
Klebsiella pneumoniae	13883	Gram -	588
Aeromonas hydrophila	9071	Gram -	24
Candida albicans	10259	Yeast	376
Aspergillus niger	6275	Mold	294
P. expansum	117	Mold	36
Aspergillus oryzae	10196	Mold	2350
Cephalosporium	12285	Mold	71

\*American Type Culture Collection

## FOR INDUSTRIAL USE ONLY

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT SAFETY DATA SHEET FOR MORE**

**INFORMATION**

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