



VpCI® ADDITIVES FOR FORMULATORS

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. 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

- Non-toxic, non-hazardous
- Gentle & non-irritating
- Biodegradable and renewable
- Broad-spectrum antimicrobial properties at low concentration

TYPICAL APPLICATION

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

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 Organism	ATCC*	Type Number	Minimum Inhibitory Concentration (active ppm)
<i>Staphylococcus aureus</i>	6538	Gram +	141
<i>Staphylococcus epidermidis</i>	14409	Gram +	141
<i>Streptococcus faecalis</i>	6569	Gram +	141
<i>Bacillus subtilis</i>	6633	Gram +	71
<i>Bacillus cereus</i>	11778	Gram +	71
<i>Micrococcus luteus</i>	4698	Gram +	141
<i>Escherichia coli</i>	8739	Gram -	24
<i>Proteus mirabilis</i>	9921	Gram -	24
<i>Pseudomonas aeruginosa</i>	15442	Gram -	141
<i>Pseudomonas cepacia</i>	25608	Gram -	71
<i>Pseudomonas stutzeri</i>	17591	Gram -	71
<i>Salmonella choleraesuis</i>	10708	Gram -	588
<i>Enterobacter erogenes</i>	13048	Gram -	588
<i>Klebsiella pneumoniae</i>	13883	Gram -	588
<i>Aeromonas hydrophila</i>	9071	Gram -	24
<i>Candida albicans</i>	10259	Yeast	376
<i>Aspergillus niger</i>	6275	Mold	294
<i>P. expansum</i>	1117	Mold	36
<i>Aspergillus oryzae</i>	10196	Mold	2350
<i>Cephalosporium species</i>	12285	Mold	71

* American Type Culture Collection



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Environmentally Safe VpCI®/MCI® Technologies

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.

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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