



## NEUTRAL PEROXYACETIC SANITIZER

**BIOXY +** is a powdered product that generates peracetic acid in water. This unique product offers many advantages over conventional quaternary ammonium and chlorine. There is no cell resistance build-up or foaming tendencies as associated with quats, is not as sensitive to organic or hard water conditions.

It is not corrosive, furthermore, **BIOXY +** is effective against a wide spectrum of micro-organisms, and is one of the most effective sanitizers on the market. It can also be used as a sanitizer (200 ppm). Typical applications are used by food industry agricultural and horticultural buildings such as hog barns, hatcheries, poultry houses and all farming equipment. In addition, **BIOXY +** is also ideal to sanitize water tanks related to water and wastewater treatment.

*Food and beverage industry accepted*

### FEATURES AND BENEFITS

- POWDER
- STRONG OXIDIZER
- NON-VISCOUS
- BIODEGRADABLE
- EXCELLENT SOLUBILITY
- ODOUR FREE
- NEUTRAL pH
- NO MICROBIAL RESISTANCE BUILD-UP
- CONTROL OF A BROAD SPECTRUM OF MICROORGANISMS
- EFFECTIVE ON BIOFILMS
- PREVENTS AND DESTROYS MOLD AND YEAST

<b>ACTIVITY</b> 10% active (in ideal conditions) (2 times more concentrated)	<b>SURFACES</b> Non corrosive on galvanized and stainless steel
<b>ODOUR</b> No odor	<b>PHYSICAL</b> Solid
<b>CONCENTRATION</b> 0,1% - 0,2% 1-2 g/L = 10 - 20 g/10L	<b>pH</b> Reacts with water to generate peracetic acid at neutral pH levels
<b>HANDLING/EMPLOYEES</b> Safe to handle	<b>STORAGE</b> Requires limited space
<b>CHEMICAL STABILITY</b> Stable	<b>TRANSPORTATION</b> Safe





## PROPRIÉTÉS PHYSIQUES

Apparence	Poudre blanche
Odour	Low
Specific gravity @ 200C	N/A
Viscosity	N/A
pH (0,2 % Sol)	9,4
Flash point (TCC)	None
Phosphorus	None
Water solubility	Complete
Auto ignition temperature	None
Chlorine	None
Boiling point	None
Freezing point	None
Foaming tendency	Non foaming
Concentration monitoring techniques	Conductivity, titration
Rinsing	Excellent



## BIOXY + AND H1N1

Independent laboratory testing has demonstrated the efficacy of 1% BIOXY + at a dilution rate of 1:10 (100 PPM) on H1N1 as well as related viruses from the orthomyxo viridae family which includes the avian Influenza A virus. This inactivation is virtually instantaneous, within 10 seconds.

## EFFICIENCY OF BIOXY + AT 0.08% AND AT 0.2% CONCENTRATIONS (80 PPM ET 200 PPM)

Micro-organisms	Initial count (CFU/ML)	Contact time	Final count (CFU/ML) after exposure to product at 0.08%	Log reduction	Final count (CFU/ML) after exposure to product at 0.2%	Log reduction
Salmonella spp	8.0 10 <sup>6</sup>	After 2 mn	< 2	6.6	< 2	6.6
		After 30 mn	< 2	6.6	< 2	6.6
Listeria monocytogenes	9.0 10 <sup>6</sup>	After 2 mn	< 2	6.7	< 2	6.7
		After 30 mn	< 2	6.7	< 2	6.7
Escherichia coli O 157 H7	2.0 10 <sup>7</sup>	After 2 mn	< 2	7.0	< 2	7.0
		After mn	< 2	7.0	< 2	7.0
Bacillus subtilis ATCC 6633	6.2 10 <sup>6</sup>	After 2 mn	870	3.9	680	> 3.9
		After 30 mn	560	4.0	360	> 4.2
Klebsiella pneumonia ATCC 13883	7.0 10 <sup>6</sup>	After 2 mn	< 2	6.5	< 2	6.5
		After 30 mn	< 2	6.5	< 2	6.5
Staphylococcus aureus ATCC 33591	8.0 10 <sup>6</sup>	After 2 mn	< 2	6.6	< 2	6.6
		After 30 mn	< 2	6.6	< 2	6.6