



**CLEANING &
DISEASE CONTROL**

AGRICULTURE
BACTERICIDE – VIRUCIDE – FUNGICIDE

**THE ENVIRONMENTAL
Broad Spectrum
Disinfectant**



**A Safe to handle, Unique & Patented Biotechnology based, Non-Toxic, Non-Harsh,
Non-Corrosive, Non-Carcinogenic, Environment Friendly, Biodegradable,
certified Food Contact No Rinse disinfectant.**

PRODUCTS APPROVED BY HEALTH CANADA AND CFIA

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DIN # 02431734



UKAL
CANADA INC.



HIGH LEVEL | DISINFECTANT PERACETIC ACID AT NEUTRAL PH

BIOXY ENVIRO is a powder product that generates 3 distinct disinfectants; Quaternary, Hydrogen Peroxyde and Neutral Peracetic-Acid sets new industry standards as the first environmentally safe broad-spectrum disinfectant to record total kills on the most difficult pathogens.

BIOXY ENVIRO is a powder, when dissolved in water, produces three active disinfectants; peroxy-acetic agent, hydrogen peroxide and two quaternary chains of fourth generation and all at a near neutral pH making it safe for users.

BIOXY ENVIRO is a disinfectant used for hundreds of applications in the agricultural community like fogging, foot baths, cleaning and general disinfecting. The powder breaks down quickly and leaves no trace in the environment, in addition to having no microbial resistance.

BIOXY ENVIRO is a champion against a broad spectrum of Micro organisms. As well as being safe, it is very effective in presence of biofilm, dirt and other contaminants.

BIOXY ENVIRO, with its environmental and safe formula replaces all the toxic products such as: glutaraldehydes, aldehydes, and chlorine-based corrosive products.

BIOXY ENVIRO can be used in cattle, hog or poultry farms and in many other places such as in veterinary clinic. Virtually odorless, convenient for users as well as for animals.

FEATURES AND BENEFITS

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



DIRECTIONS FOR USE

Use BIOXY ENVIRO on previously cleaned equipment.
Use BIOXY ENVIRO at a concentration of 200 to 2% (2 to 20 g BIOXY ENVIRO per liter). Keep this solution in contact with surfaces for at least 10 minutes; then rinse abundantly with potable water.

SANITATION: Use at a concentration of 0.1% to 0.2% maximum (1g to 2g BIOXY ENVIRO in 1 liter of water). These concentrations of 0.1% - 0.2% yields up to 200 ppm of active peracetic acid. Do not rinse if concentration is equal or below 200 ppm peracetic acid.

DILUTION RATE REQUIRED (w/v)

Percentage	2.0%	1.0%	0.5%	0.2%	QTY OF DISINFECTANT SOLUTION REQUIRED
QTY OF BIOXY ENVIRO REQUIRED					
Gram per Liters	20g	10g	5g	2g	1 Litre
	200g	100g	50g	20g	10 Litres
	1000g	500g	250g	100g	50 Litres

PROPERTIES

Appearance: White powder
Odour: Very Mild

INGREDIENTS

Contains: Sodium carbonate peroxyhydrate.

- 1- Establish the quantity of disinfectant to be used.
- 2- Choose the rate for the level of disinfection is needed.
- 3- Use the scoop for the right quantity of BIOXY ENVIRO in warm water.
- 4- BIOXY ENVIRO is a green product, PAA is active for 24 hours,
*Quaternary Ammonium will be effective for 4 to 5 days

For Cleaning And Disinfection of Surfaces And Equipment

In agricultural buildings

Remove all animals from premises. Remove all litter and manure from floors, walls, and other surfaces of barns and equipment. Brush and blow dust from fans, motors, louvers and electrical equipment. For terminal cleaning and disinfection, saturate all surfaces with a 1% w/v solution of BIOXY ENVIRO, using a pressure washer or a fogger. BIOXY ENVIRO should remain in contact with the surface to be disinfected for at least 10 minutes depending on pathogen to eliminate. Scrub heavily soiled utensils and soak in a 1% w/v solution of BIOXY ENVIRO for 10 minutes.

In veterinary hospitals

Remove heavy soil deposits then thoroughly wet surfaces to be disinfected with a 1% w/v solution of BIOXY ENVIRO using a mop, sponge or cloth, as well as by spraying. A minimum contact time of 10 minutes is required. For laboratory equipment and bowls, scrub heavily soiled utensils and soak in a 1% w/v solution of BIOXY ENVIRO for a minimum of 10 minutes.



In food processing plants

Remove all debris and other deposits from surfaces. Then, thoroughly wet surfaces to be disinfected with a 1% w/v solution of BIOXY ENVIRO using a mop, sponge or cloth, as well as by spraying. A minimum contact time of 10 minutes is required. For food contact surfaces, rinse thoroughly with potable water after treatment with BIOXY ENVIRO.

For Aerial Disinfection

To replace dangerous and ineffective glataldehyde fumigation in empty farm buildings and veterinary hospitals. Turn off the ventilation system during the treatment of disinfection. Use a fogging equipment as part of terminal disinfection routine with a 1% w/v solution of BIOXY ENVIRO Apply at a rate of one litre of solution per 100 m3 with particle size not exceeding 100 microns in order to get a minimal contact time of 10 minutes with microorganisms in the air. Leave the room during the fogging. Users and animals may re-enter the treated area once the fog has disappeared. No rinsing is required after treatment.

Sanitizing Water System

For sanitizing drinking water system at terminal clean out, use a 1.0% w/v solution of BIOXY ENVIRO. Dose header tank and drain system. Wait at least 10 minutes before draining and rinsing again.

Pathogens versus BIOXY ENVIRO and contact tested time needed for recognized efficiency

Bacteria	DILUTION RATE	CONTACT TIME
Escherichia coli 0157 H7	200 ppm	2 min
Bacillus Subtilis ATCC 6633	200 ppm	2 min
Klebsiella Pneumoniae ATCC 13883	200 ppm	2 min
Staphylococcus Aureus ATCC 33591	200 ppm	2 min
Methicillin resistant Staphylococcus aureus (MRSA) (ATCC 43300),	200 ppm	2 min
Listeria monocytogenes (ATCC 35152)	200 ppm	2 min
Salmonella typhi (ATCC 6539)	200 ppm	2 min
Vancomycin resistant Enterococcus faecalis (VRE) (ATCC 51299)	1%	3 min
Pseudomonas Aeruginosa	1%	3 min
Vibrio cholera (ATCC 14035)	1%	10 min
campylobacter jejuni (ATCC 29428)	1%	10 min

VIRUS	DILUTION	TEMPS CONTACT
Swine Influenza virus H1N1	1%	1 min
Influenza A2/Japan	1%	10 min
herpes Simplex Type 1	1%	10 min
Adenovirus Type 5,	1%	10 min
Vaccinia virus, et Avian influenza A/ Dindon/Wisconsin	1%	10 min
Human Immunodeficiency Virus Type 1 (HIV- 1)	1%	10 min
Newcastle disease virus	1%	10 min
Laryngotracheitis Virus	1%	10 min
Porcine Respiratory and Reproductive Syndrome virus	1%	10 min
Porcine Epidemic Diarhee "PED"	1%	15 min