

O-Sept s



High-Level Hard Surface Disinfectant Powder

PRODUCT OVERVIEW

O-Sept s is a safe, broad-spectrum disinfectant powder that generates peracetic acid and hydrogen peroxide when dissolved in water. This unique formulation provides powerful oxidation and rapid disinfection against bacteria, fungi, viruses, and spores while maintaining a near-neutral pH for user and equipment safety.

It offers fast, residue-free action and naturally decomposes into water, oxygen, and acetic acid, ensuring environmental safety and biodegradability.

O-Sept s is ideal for poultry and livestock facilities, food processing plants, veterinary hospitals, and drinking water systems. It can be applied for surface cleaning, fogging, aerial disinfection, and on-bird spraying, delivering effective hygiene and disease control in all stages of production.

FEATURES & BENEFITS

- **High-Level Efficacy:** Broad-spectrum activity against bacteria, fungi, viruses, yeasts, and biofilms.
- **Environmentally Safe:** Biodegradable, non-toxic, non-corrosive, non-carcinogenic.
- **User Friendly:** Virtually odorless, safe to handle, and leaves no residue.
- **Versatile Use:** Suitable for aerial disinfection, surface sanitation, post-immersion chilling, and water treatment.
- **Formalin Replacement:** Provides a safer and equally effective alternative to formalin fumigation.
- **Food Grade Certified:** Suitable for use on food-contact surfaces when used as directed.

ONE PRODUCT ENDLESS APPLICATIONS



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USES AND APPLICATIONS:

- Terminal disinfection of poultry and livestock facilities between production cycles.
- Fogging and aerial disinfection in animal houses and veterinary settings.
- Cleaning and sanitizing equipment and surfaces in food and beverage industries.
- Disinfection of drinking water systems and post-immersion chilling applications.
- On-bird spraying and continuous sanitation to reduce disease pressure and maintain flock health.

MICROBIOLOGICAL EFFICACY

O-Sept s demonstrates high-level activity against:

- *Salmonella spp.*, *Escherichia coli*, *Listeria monocytogenes*, *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Aspergillus fumigatus*
- Viruses including Avian Influenza Virus (H9N2), Newcastle Disease Virus, and Infectious Bursal Disease Virus.
- Effective against biofilms, molds, and yeasts on hard surfaces.

ENVIRONMENTAL IMPACT

- Fully biodegradable; decomposes into oxygen, water, and acetic acid.
- No toxic residues – safe for use in animal environments.



SLAUGHTER HOUSES

Microbiological Background:

Microbiological tests of store-bought chickens revealed that campylobacter were found in 70% of the chickens, *salmonella* at 26%, *Staph Aureus* at 30%, *Campylobacter spp.* at 5%, *Listeria monocytogenes* at 7%, *Escherichia coli* at 8% and *Clostridium spp.* at 20%.

These figures reflect findings reported in published surveillance studies and public health reports, including CDC data.

Humans can get these contaminations from chickens by touching them or their manure, according to the CDC. The birds can spread the bacteria even when they look healthy.

APPLICATION: IMMERSION CHILLING

- Maintain chill water pH between 6.0 and 6.5 and temperature below 40°F (4°C).
- Use a high water flow rate with counter-current flow to enhance washing efficiency.
- Apply 1% O-Sept s solution, either sprayed post-immersion, or added directly to the immersion solution.
- No rinsing required.

O-Sept s may also be applied during the picking and evisceration stages for carcass rinsing.



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PRODUCT DETAILS

Composition

When dissolved in water, O-Sept s generates controlled concentrations of peracetic acid and hydrogen peroxide through an in-situ reaction.

Form: Powder

Appearance: White or pink crystalline powder

Odor: Virtually odorless

pH (1% solution): Near neutral

Solubility: Completely soluble in water

Stability: Stable in dry form

Packaging

Available in industrial-grade packaging:

4 kg bucket and 1 kg bottle (other sizes available upon request).

SAFETY INFORMATION

For industrial use only.

Operator Safety:

Always wear gloves, protective eyewear, and a mask during handling and application.

Avoid contact with skin and eyes; use appropriate personal protective equipment (PPE).

Refer to the Safety Data Sheet (SDS) for detailed safety and handling instructions.

STORAGE AND DISPOSAL:

Storage:

Store below 30 °C in a dry place in tightly sealed containers, protect from humidity and direct sunlight.

Keep out of reach of children and unauthorized personnel.

Disposal:

Dispose of used containers and residues in accordance with local regulations.

APPLICATIONS & DIRECTIONS FOR USE

Application Area	Concentration / Dose	Instructions for Use
Food Processing Plants	1% (10 g / L)	Use on pre-cleaned food-contact surfaces. Keep for 10 min, then rinse with potable water.
Sanitation (No-Rinse)	0.2% (2 g / L)	For food-contact surfaces ≤200 ppm. Apply after cleaning. No rinse required.
Surfaces & Equipment (Farms / Veterinary)	1.2-2% (12-20 g / L)	Remove organic matter. Apply by spray, mop, or fogger. Maintain 10 min contact (≤45 min for metal).
Post-Immersion / Chilling	1% (10 g / L)	Add to chilling water or spray post-immersion. Maintain pH 6-6.5 and temp <4°C. No rinse needed.
Aerial Disinfection (Fogging)	1.2% (12 g / L)	Fog 1 L per 100 m ³ (particle ≤100 μm). Keep closed for 10 min. Safe in presence of birds.
Farm Use	Prevention: 0.5% Disinfection: 1% Shock: 2-5%	Spray in presence of birds. Prevention/disinfection twice weekly; shock 5 days for severe infection.
Water Network & Continuous Feeding	Terminal: 1% Continuous: 0.1%	Fill and circulate system for 15-30 min (1%), or dose continuously at 0.1%. No rinse required.

Preparation Note: Stir for 30-60 sec until fully dissolved. Use freshly prepared solution. Treated water is intended for animal use only and is not for direct human consumption.

WHERE CLEAN MEANS PROTECTION



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