

FUMELITE

OPP



Innovative Dry Smoke Disinfectant for Comprehensive Hygiene

PRODUCT OVERVIEW

FUMELITE OPP is a state-of-the-art disinfectant smoke generator designed to deliver unparalleled microbial control in enclosed environments. Its advanced formulation ensures uniform diffusion, effectively targeting and eliminating a wide spectrum of pathogens, including bacteria, fungi, yeasts, and viruses. This product is an ideal solution for secondary disinfection in agricultural, industrial, and storage facilities, replacing traditional formaldehyde fumigation with a safer and more efficient alternative.

RESPONSIBLE CHOICE

FEATURES & BENEFITS

Broad-Spectrum Efficacy:

Demonstrated effectiveness against key pathogens, including:

- **Bacteria:** Salmonella, Listeria, Enterococcus, Pseudomonas, Staphylococcus.
- **Fungi:** Aspergillus and other molds.
- **Viruses:** Avian Influenza Virus (H9N2), Newcastle Disease Virus, Infectious Bursal Disease Virus.

Uniform Diffusion: The smoke disperses evenly, ensuring comprehensive disinfection of all surfaces and airspaces.

Dry Application: No water required, making it ideal for moisture-sensitive environments.

Safe and Non-Corrosive: Does not damage equipment, surfaces, or structures.

Convenient and Efficient: Quick and easy application process with minimal labor requirements.

Eco-Friendly Alternative: Replaces formaldehyde-based fumigation with a safer, environmentally friendly option.



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PRODUCT DETAILS

Active Ingredient

Biphenyl-2-ol (OPP)
Orthophenylphenol

Concentration

30%

Tin Size	Coverage Area (m ³)	Intended Use
40g	75-150	Small rooms, equipment disinfection or hatcheries.
160g	300-600	Large poultry housing or industrial facilities.
750g	1400-2800	Very large facilities and warehouses.

RECOMMENDED USAGE

Primary Applications:

Animal breeding and feedstuffs industry

- Poultry housing and hatcheries.
- Feed silos and storage areas.
- Incubators and livestock facilities.
- Agricultural warehouses and equipment.

Usage Protocols

Ultra Diffusion Treatment:

- Purpose: Secondary disinfection 24-48 hours before animal arrival.
- Preventive treatment: 0.27 g/m³ of FUMELITE OPP (≈ 81 mg Orthophenylphenol/m³).
- Curative treatment (outbreak control): 0.54 g/m³ of FUMELITE OPP (≈ 162 mg Orthophenylphenol/m³).

Optimal Conditions:

Temperature: >9°C.
Humidity: 50-80%.
Contact Time: 15 hours.

Contamination Management:

- Effective in addressing suspected contamination with pathogens such as Salmonella and Aspergillus.
- Ideal for outbreak response or routine hygiene maintenance.

APPLICATION INSTRUCTIONS

Application Protocol

Preparation (Before Use).

- Clean the facility thoroughly and remove all organic matter.
- Ensure no animals, feed, or water remain inside.
- Switch off gas supply and ventilation systems.
- Disconnect smoke detectors, photoelectric eyes, and protect smoke-sensitive devices.
- Wipe down surfaces for maximum efficacy.
- Seal all doors, windows, and ventilation openings for best containment.
- The use of FUMELITE OPP must always be carried out in premises free of humans, animals, plants, food, and feedstuffs.

Application (During Use).

- Shake/uncompact the powder by inverting the container several times before opening.
- Distribute the required number of tins according to the volume to be treated (see Coverage table).
- Place each tin on a heat- and fire-resistant surface in the center of the predetermined area.
- Keep all combustible materials at least 1.5 m away from the fumigator.
- Remove the lid and peel the inside protection label then ignite the wick using a torch lighter.
- Always ignite the tin furthest from the exit first, working backwards toward the exit.
- Exit the premises immediately, ensuring all doors and exits are tightly closed.

Post warning signs on all entrances: "FUMIGATION IN PROGRESS – ENTRY PROHIBITED."

Contact Time

Maintain a minimum exposure of 4 hours and an optimum of 12-15 hours.

Post-Treatment (After Use).

Ventilate the premises thoroughly for at least 1-3 hours to renew the air before re-entry.

The premises may be reused once the full contact time and ventilation are complete, and all residues eliminated.

Maintain a minimum 24-hour interval between two treatments.



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Recommended Usage by Facility

1. Poultry Houses & Livestock Facilities

Purpose: Final disinfection 24–48 hours before chick or animal placement.

Procedure:

- Clean and disinfect with liquid disinfectants first.
- After drying, place tins at central or evenly distributed points.
- 160 g tin: sufficient for 300–600 m³.
- 750 g tin: sufficient for 1400–2800 m³.
- Ignite, seal, and allow exposure for 12–15 hours.
- Ventilate for 2–3 hours before re-entry.

Example: Two × 750 g tins are sufficient for a 5,600 m³ poultry house.

Benefit: Ensures uniform disinfection of cracks, crevices, bedding, and equipment.

2. Hatcheries & Egg Storage Rooms

Purpose: Prevent cross-contamination during incubation and storage.

Procedure:

- Use 1 × 40 g tin per 75–150 m³.
- Ignite after sealing doors and ventilation.
- Maintain exposure for ≥ 4 hours, then Ventilate completely before reuse.

Special Note: FUMELITE OPP smoke does not penetrate eggshells and does not affect embryo development or hatchability. It acts solely on the eggshell surface, eliminating pathogens such as Salmonella and Aspergillus.

3. Feed Silos & Storage Silos

Purpose: Control fungal contamination and prevent mould growth.

Procedure:

- Apply 1 × 40 g tin per 75–150 m³ (≈ up to 30 ton silo capacity).
- Place through the lower access opening on a stable surface.
- Seal all openings and allow exposure for 1–2 hours.
- Ventilate thoroughly before refilling with feed.

Benefit: Prevents mould growth (Aspergillus) and reduces feed spoilage risks.

4. Closed Vehicles & Transport Equipment

Purpose: Disinfection of chick/egg transport vehicles and equipment carriers.

Procedure:

- Calculate internal volume of the vehicle.
- Use 1 × 40 g tin per 75–150 m³.
- Place tin centrally, ignite, and close all doors/windows.
- Exposure time: ≥ 4 hours.
- Ventilate completely before reuse.

5. Warehouses & Large Industrial Facilities

Purpose: Routine disinfection of large storage spaces, poultry facilities, or processing plants.

Procedure:

- For volumes above 2000 m³, use 750 g tins placed at multiple points for even distribution.
- Exposure time: 12–15 hours.
- Ventilate thoroughly before workers re-enter.

Benefit: Cost-effective, wide-area disinfection ensuring complete coverage, including hidden surfaces.

⚠ SAFETY INFORMATION

Operator Safety:

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

Do not breathe fumes.

Avoid sparks, flames, or flammable materials nearby.

Storage:

Store in a cool, dry place away from direct sunlight and ignition sources.

Keep out of reach of children and unauthorized personnel.

Disposal:

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

First Aid Measures:

- In case of skin contact, wash with soap and water.
- If inhaled, move to fresh air and seek medical attention if symptoms persist.
- In case of eye contact, rinse immediately with plenty of water and consult a physician.

COMPLIANCE & REGULATORY INFORMATION

Regulatory Approvals:

- Complies with international biocide regulations for use in livestock premises disinfection (PT03) and storage of livestock feed (PT04).

Environmental Impact:

- Designed to minimize environmental impact with biodegradable components.



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