

OPTICIDE 200

**A broad-spectrum Disinfectant Sterilant for
General Farm use and Animal Housing areas**

Contents: An aqueous solution of 100.0grs /litre (10%v/v) Benzyl C12-14 (even-numbered) alkylmethylchloride + 150 grs per litre (15.0% v/v) Glutaraldehyde

OPTICIDE 200 is a highly effective blend of Glutaraldehyde and Q.A.C's. It is one of the broadest spectrum disinfectants / sterilants available. **Opticide 200** kills all pathogen types including Viruses, Bacteria, Protozoa, Mycoplasma, Fungi & Yeasts. It can be applied by Knapsack sprayer, Watering can, Pressure washer, Cloth, Mop or Fogger. **Opticide 200** remains stable and effective for at least one year after dilution.

Kills all Pathogen Types | Fully Approved | Highly effective Foot Dip
Powerful Disinfectant for Calving Boxes, Lambing Pens & Stables
Routine Bedding & Cubicle Hygiene | Controls Ringworm, Rotavirus, Pneumonia

INSTRUCTIONS FOR USE

For best results, all surfaces should be thoroughly cleaned beforehand. Recommended dilution rates will vary widely depending on the specific surfaces being treated, pathogen types being targeted and your overall objective, **so please make sure to study the more detailed instructions to be found on our website and /or product leaflets.**

AGRICULTURE

In general, **Opticide 200** should be diluted at rates between 1 : 150 (0.66%) and 1 : 50 (2.0%) for general disinfection of Floors, Walls, Equipment surfaces, Cubicles & Bedding areas. Spray on, using 100 to 300 mls of diluted product per sq. meter of surface area. Where there is a known disease problem, increase the concentration to 1 : 50 until the problem has cleared up.

Routine Hygiene in Milking Parlours, Lambing pens, Calving boxes, Sheep sheds, Stables, Farrowing crates, Kennels, Hatcheries, Surgeries etc., Use 1 : 150. **Foot dipping Livestock:** Preventative treatment use 1 : 50. For curative situations use 1 : 25. **Control of Ringworm,**

Rotavirus, Pneumonia etc in Calf Pens: Clean thoroughly first & use 1 : 50. **Boot Dips:** Use 1 : 50 and change at least monthly: **Vehicle disinfection & fogging:** Use 1 : 150. **Water treatment in poultry:** Use 1 : 3000. **Egg Washing:** Use 1 : 200.

OTHER NON-FOOD CONTACT AREAS

This product has been tested by the *Campden Food & Drink Research Association* and found to be a suitable surface disinfectant at a 0.5% concentration. Pathogens tested by Campden included Salmonella sp., Staphylococcus sp., Streptococcus sp., Pseudomonas sp., Proteus sp., Listeria sp. and Saccharomyces sp.

In normal cleaning operations, use a dilution rate of 1 : 200 (0.5%). Cover all surfaces including Floors, Walls, Tables etc. In particularly challenging situations eg, Toilets & Washrooms and /or for sterilizing Mops, Cloths etc., use a dilution rate of 1 : 100 (1%)



Scan me!

This preparation has been approved by the Minister for Agriculture, Food and the Marine as a disinfectant for the purpose of the Disease of Animal Act, 1966 and Orders made thereunder. The contents of this container are hereby guaranteed to be the same quality and composition as approved by the Minister for Agriculture, Food and the Marine

Approved uses and Dilution rates

- * Foot and mouth disease orders in the proportion of one part of this preparation to 50 parts of water.
- * Swine vesicular disease order in the proportion of one part of this preparation to 150 parts of water.
- * Diseases of poultry order in the proportion of one part of this preparation to 125 parts of water.
- * Tuberculosis orders in the proportion of one part of this preparation to 13 parts of water.
- * General orders in the proportion of one part of this preparation to 61 parts of water.

WARNINGS: H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects. P280 Wear protective clothing, gloves, eye, and face protection. P260 Do not breathe Dust /mist/vapours/. P284 In case of inadequate ventilation wear respiration protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P405 Store locked up.

PCS No: 95482



ENVIRONMENTAL HYGIENE PROGRAMME FOR POULTRY FARMS

- Remove all feeders and drinkers.
- Clean out all the litter, dust and dirt. This should be removed from the site.
- Pressure wash all surfaces including fan housing, air inlets etc. Remove any soiling from the shed.
- Spray OPTICIDE at a dilution of 1:150 using knapsack sprayer or pressure washer. Apply at the rate of 300mls per square metre. Apply to all surfaces, including walls, floors, posts, ceilings and fixed equipment.
- Where serious disease problems exist i.e.: IBD, Salmonella etc, OPTICIDE should be sprayed at a dilution of 1:50.
- On earth floors, OPTICIDE should be used at a dilution of 1:50.



• WATER SYSTEMS

- Drain and clean the header tank, then refill with water and put in OPTICIDE at the rate of 1 ml of OPTICIDE to 3 litres of water. Dose water once weekly at a dilution of 1:3000.

• MOVEABLE EQUIPMENT

- Pressure wash, then disinfect with OPTICIDE diluted 1:150.
- Lay new bedding and return moveable equipment.

• BEFORE BIRDS ARE INTRODUCED

- Fog with OPTICIDE at a dilution of 1:150 either using a petrol fogger or in-line system. This helps to control any disease that could be brought in with the bedding and disinfects inaccessible areas of the house that might have been overlooked and is best done a few hours before the birds are introduced. If using a thermal fogger dilute OPTICIDE at 1:50.

• AFTER RESTOCKING

- Infection levels can be reduced by fogging OPTICIDE twice a week in dilution of 1:150. Use either a fixed fogging system or petrol fogger. Use at the rate of 9 ltr. of diluted OPTICIDE (ie: 60 mls of concentrate) per 10.000 sq. ft. of floor space.
- **NOTE: It is advisable to stop all drinker and fogging applications of OPTICIDE at least 72 hours before vaccination and not to resume the programme until 2 days after vaccination is completed.**

DO NOT FOG OPTICIDE OVER BIRDS AT A DILUTION STRONGER THAN 1:150.

ALWAYS USE EYE PROTECTION AND FACE MASK WHEN SPRAYING AND FOGGING CHEMICALS





OPTICIDE 200 IS EFFECTIVE AGAINST THE FOLLOWING POULTRY DISEASES/VIRUSES

Dilution Ratio	Dilution Rate
01:50	20mLs per litre of water
	400mLs per 4 gallons of water
	500mLs per 5 gallons of water
1:150	4 litres per 200 litres of water
	7mLs per litre of water
	140mLs per 4 gallons of water
1:200	175mLs per 5 gallons of water
	1.3 litres per 200 litres of water
	5mLs per litre of water
1:500	100mLs per 4 gallons of water
	125mLs per 5 gallons of water
	1 litre per 200 litres of water

Virus Type	Virus	Disease	OPTICIDE Dilution
Poxvirus	Avipox Virus (L)	Fowl Pox	1:150
Herpetovirus	Herpesvirus (L)	Marek's Disease	1:1400
Adenovirus	Adenovirus (H)	Egg Drop Syndrome	1:500
Reovirus	Rotavirus (H)	Gumbro/IBD Tenosynovitis	1:200
Paramyxovirus	Paramyxovirus (L)	Newcastle Disease	1:150
Orthomyxovirus	Influenza Virus (L)	Fowl Plague Avian Influenza	1:150
Reovirus	Reovirus (H)	Runting and Stunting Disease	1:200

(H) = Hydrophilic Virus - (L) = Lipophilic Virus

BACTERIA

Mycoplasma Spp	Gram - Bacterium	Upper Respiratory Infection	1:200
Escherichia Coli	Gram - Bacterium	Colibacillosis	1:1500
Salmonella Enteritidis	Gram - Bacterium	Salmonellosis	1:150
Chlamydia Psittaci	Gram - Bacterium	Chlamydiosis	1:1000
Pasteurella Spp	Gram - Bacterium	Infectious Serositis (Fowl Cholera)	1:200
Listeria Monocytogenes	Gram + Bacterium	Septicaemia Listeriosis	1:200
Erysipelothrix Rhusiopathiae	Gram + Bacterium	Erysipeloid Infection (Turkeys)	1:8000
Staphylococcus Spp	Gram + Bacterium	Runting and Stunting Disease	1:1500
Streptococcus Faecalis	Gram + Bacterium	Streptococcosis	1:500

FUNGUS

Aspergillus Flavus	Fungus (Mould)	Mycotoxicosis	1:1000
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OTHERS

Eimeria Tenella	Protozoan	Coccidiosis	1:100
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HYGIENE PROGRAMME FOR KENNELS

- Opticide 200 is effective against viruses, bacteria, moulds, and fungi including parvovirus, kennel cough and rabies.
- Directions for use:
 - Remove all mobile feed and water troughs.
 - Clean out all the bedding and pressure wash walls and ceiling.



HYGIENE PROGRAMME FOR KENNELS

- Spray OPTICIDE at a dilution of 1:150 using a mop, watering can, brush & bucket, knapsack sprayer or pressure washer. Apply at the rate of 300ml per square metre. In extreme cases where disease problems are being experienced i.e. parvovirus, kennel cough etc. OPTICIDE should be sprayed at a dilution of 1:50. It is not necessary to wash off the product after application.
- All troughs mobile and static should be thoroughly scrubbed clean, then sprayed with OPTICIDE at a dilution of 1:150 before replacing.
- Between total clean out periods, OPTICIDE at a dilution of 1:150 should be sprayed over the bedding or on bed boards on a twice weekly basis.
- Leads, collars, harnesses etc. should be dipped in OPTICIDE at a dilution of 1:100 after use to stop cross contamination of disease from dog to dog.





HYGIENE PROGRAMME FOR KENNELS

- A boot dip with a solution of OPTICIDE at a dilution of 1:50 should be available for all personnel and visitors to use before entering the kennel area. The foot dip solution should be changed fortnightly but more frequently if heavy soiling is experienced. Diseases are often carried on footwear into kennel areas.
- Vehicles used for transportation of dogs can be safely washed both inside and out with OPTICIDE at a dilution of 1:150 to avoid cross contamination from one area back into kennels.





OPTICIDE 200 IS EFFECTIVE AGAINST THE FOLLOWING CANINE DISEASES/VIRUSES

Dilution Ratio	Dilution Rate
01:50	20mLs per litre of water
	400mLs per 4 gallons of water
	500mLs per 5 gallons of water
1:150	4 litres per 200 litres of water
	7mLs per litre of water
	140mLs per 4 gallons of water
1:200	175mLs per 5 gallons of water
	1.3 litres per 200 litres of water
	5mLs per litre of water
1:500	100mLs per 4 gallons of water
	125mLs per 5 gallons of water
	1 litre per 200 litres of water

CANINE DISEASES EFFECTIVE DILUTION RATES USING OPTICIDE

Virus Type	Virus	Disease	OPTICIDE Dilution
Paramyxovirus	Canine Parainfluenza Virus (L)	Kennel Cough	1:150
Paramyxovirus	Morbillivirus (L)	Distemper Hard Pad	1:150
Parvovirus	Canine Parvovirus (L)	Parvovirus	1:180
Rhabdovirus	Lyssavirus (L)	Rabies	1:150
Adenovirus	Canine Adenovirus - 1 (H)	Infectious Canine Hepatitis	1:500

(H) = Hydrophilic Virus - (L) = Lipophilic Virus

BACTERIA

Bordetella Bronchiseptica	Gram - Bacterium	Kennel Cough	1:250
Escherichia Coli	Gram - Bacterium	Coliform Pyometra	1:1500
Klebsiella Pneumoniae	Gram - Bacterium	Distemper Type Syndrome	1:200
Staphylococcus Spp	Gram + Bacterium	Demodectic Mange	1:1500
Streptococcus Canis	Gram + Bacterium	Septicaemia	1:500

FUNGUS

Trichophyton Mentagrophytes	Spore Forming Fungus	Ringworm	1:50
Aspergillus Spp	Fungus (Mould)	Osteomyelitis	1:1000



HYGIENE PROGRAMME FOR FELINES

- Spray OPTICIDE at a dilution of 1:150 using a mop, watering can, brush & bucket, knapsack sprayer or pressure washer. Apply at the rate of 300ml per square metre. In extreme cases where disease problems are being experienced i.e., parvovirus, cough etc. OPTICIDE should be sprayed at a dilution of 1:50. It is not necessary to wash off the product after application.
- All troughs mobile and static should be thoroughly scrubbed clean, then sprayed with OPTICIDE at a dilution of 1:150 before replacing.
- Between total clean out periods, OPTICIDE at a dilution of 1:150 should be sprayed over the bedding or on bed boards on a twice weekly basis.
- Leads, collars, harnesses etc. should be dipped in OPTICIDE at a dilution of 1:100 after use to stop cross contamination of disease from cat to cat.
- A boot dip with a solution of OPTICIDE at a dilution of 1:50 should be available for all personnel and visitors to use before entering the feline area. The foot dip solution should be changed fortnightly but more frequently if heavy soiling is experienced. Diseases are often carried on footwear into feline areas.





OPTICIDE 200 IS EFFECTIVE AGAINST THE FOLLOWING FELINE DISEASES/VIRUSES

Dilution Ratio	Dilution Rate
01:50	20mLs per litre of water
	400mLs per 4 gallons of water
	500mLs per 5 gallons of water
1:150	4 litres per 200 litres of water
	7mLs per litre of water
	140mLs per 4 gallons of water
1:200	175mLs per 5 gallons of water
	1.3 litres per 200 litres of water
	5mLs per litre of water
1:500	100mLs per 4 gallons of water
	125mLs per 5 gallons of water
	1 litre per 200 litres of water

EFFECTIVE DILUTION RATES USING OPTICIDE

Virus Type	Virus	Disease	OPTICIDE Dilution
Parvovirus	Feline Parvovirus (H)	Feline Panleukopenia	1:180
Coronavirus	Feline Coronavirus (L)	Feline Infectious Peritonitis	1:900
Picornavirus	Feline Classification (H)	Feline Influenza	1:300
Herpetovirus	Feline Herpes (L)	Feline Viral Rhinotracheitis	1:1400
Retrovirus	Leukaemiravirus (L)	Feline Leukaemia	1:500
Rhabdovirus	Lyssavirus (L)	Leukaemia Rabies	1:150

(H) = Hydrophilic Virus - (L) = Lipophilic Virus

BACTERIA

Chlamydia Psittaci	Gram - Bacterium	Pneumonitis Encephalomyelitis	1:1000
Mycoplasma Spp	Gram - Bacterium	Upper Respiratory Infection	1:200
Escherichia Coli	Gram - Bacterium	Pyometra	1:1500
Listeria Monocytogenes	Gram + Bacterium	Listeriosis	1:200
Streptococcus Canis	Gram + Bacterium	Septicaemia Adenitis	1:500

FUNGUS

Trichophyton Mentagrophytes	Spore Forming Fungus	Ringworm	1:50
Aspergillus	Fungus (Mould)	Osteomyelitis	1:1000

— HYGIENE PROGRAMME FOR GAME FARMS

GENERAL HYGIENE

- Prior to rearing season, spray all pen sections, sheds, chick rings, night shelters, incubators, hatchers, setting trays etc., with **OPTICIDE** diluted 1:150 using a knapsack sprayer or pressure washer.

EGG WASHING

- Eggs should be washed in a solution of one-part **OPTICIDE** to 200 parts water prior to setting. Setting trays should be disinfected using a dilution of one-part **OPTICIDE** to 200 parts water before each set.

HATCHERS AND TRAYS

- Hatchers and trays should be disinfected after each hatch using a dilution of one-part **OPTICIDE** to 100 parts water.



HYGIENE PROGRAMME FOR GAME FARMS

CHICK RINGS AND NURSERY SHEDS

- Chick rings and nursery sheds should be washed, then disinfected using a dilution of one-part **OPTICIDE** to 100 parts water, after each lot of chicks are moved.

SHEDS, NIGHT SHELTERS, PEN SECTIONS ETC

- Sheds, night shelters, pen sections etc., should be swept out, washed out and disinfected using a dilution of one-part **OPTICIDE** to 100 parts water after each lot of poults are removed.
- Weekly application of **OPTICIDE** diluted 1:150 using a knapsack spray to walls, floors, bedding etc., whilst poults are in sheds will help to control disease causing pathogens e.g. E.Coli, Salmonella etc., and will help control killer diseases such as coccidiosis, black spot etc.
- At the end of each rearing season disinfect all equipment prior to storing for next season, using a dilution of one-part **OPTICIDE** to 100 parts water.



HYGIENE PROGRAMME FOR GAME FARMS DILUTION RATES

Dilution Ratio	Dilution Rate
01:50	20mLs per litre of water
	400mLs per 4 gallons of water
	500mLs per 5 gallons of water
	4 litres per 200 litres of water
1:150	7mLs per litre of water
	140mLs per 4 gallons of water
	175mLs per 5 gallons of water
	1.3 litres per 200 litres of water
1:200	5mLs per litre of water
	100mLs per 4 gallons of water
	125mLs per 5 gallons of water
	1 litre per 200 litres of water

