

DIRECTIONS

Guardall X-185 is both a powerful disinfectant and detergent. It also deodorizes by killing most microorganisms that cause offensive odors.

Guardall X-185 is a concentrate; dilute as directed for use.

Poultry and livestock must be removed from the premises during treatment. Do not re-house poultry or livestock before treatment has dried, been absorbed or set.

Feeders and waterers should be removed from houses during treatment. When not possible to remove feeders and waterers, clean and rinse to remove all disinfectant residues before reuse.

POULTRY HOUSES AND EQUIPMENT. To disinfect broiler, brooding or layer houses, remove equipment and flush down dust and cobweb accumulations with water under pressure. Remove litter and sweep floor. Dilute Guardall X-185 one quart to 50 gallons of water. Spray solution so as to wet all surfaces, particularly cracks, crevices, joists and over-lappings.

To clean equipment, first remove all gross refuse and soil by hosing with water, vacuuming, sweeping or brushing. Dilute Guardall X-185 one ounce per gallon of water. Using this solution, scrub and wash down all accessible surfaces. Flush away all loosened soil accumulations. After thoroughly pre-cleaning surfaces dilute Guardall X-185 one ounce to 1-1/2 gallons of water and apply in a wetting concentration for disinfection.

SWINE, CATTLE AND HORSE OPERATIONS. For cleaning and sanitizing farrowing pens, pig parlors, stalls, foaling areas, farm equipment, barns and livestock houses. Do not use in milking houses, milking parlors or milking stalls.

First remove all possible soils by brushing, sweeping or vacuuming. Then scrub all surfaces (walls, floors, ceilings equipment) with a solution of one quart of Guardall X-185 per 50 gallons of water. Flush away loosened soil accumulations. To disinfect properly pre-cleaned surfaces, dilute at one ounce to 1-1/2 gallons of water and apply in a wetting concentration.

Tuberculocidal - Permitted for use by the Animal Health Program, Veterinary Service, Animal and Plant Health Service, U.S.D.A., in official disinfection programs involving domestic animal housing and transportation facilities. For official disinfection programs, a use dilution of 1:100 (1 quart to 25 gallons of water) is required.

DANGER! May be fatal if swallowed or absorbed through skin. May cause burns and damage to the eyes. Do not get in eyes, or skin or on clothing. In case of contact, wash thoroughly with water. For eyes, get immediate medical attention. Avoid breathing spray mist. Avoid contact with food or food products. Wash thoroughly after handling.

Use rubber gloves when scrubbing by hand.

First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

Do not reuse empty container. Destroy it by perforation or crushing. Bury or discard in a safe place.

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME.

POULTRY PRODUCTION SANITATION PROGRAMS

GUARDALL X-185

BACTERICIDE, FUNGICIDE, VIRICIDE *

(WATER SOLUBLE)

ACTIVE INGREDIENTS:	
Cresylic acid	30.0%
Soap	17.8%
Isopropanol	16.0%
Sodium dodecylbenzene sulfonate	5.1%
4- and 6-chloro-2-phenylphenol	4.0%
o-benzyl-p-chlorophenol	3.0%
Tributyltin neodecanoate	0.5%
para-tertiary-amyphenol	0.2%
2,2'-methylene bis (3,4,6-trichlorophenol)	0.1%
Total Active Ingredients	76.7%
INERT INGREDIENTS:	23.3%

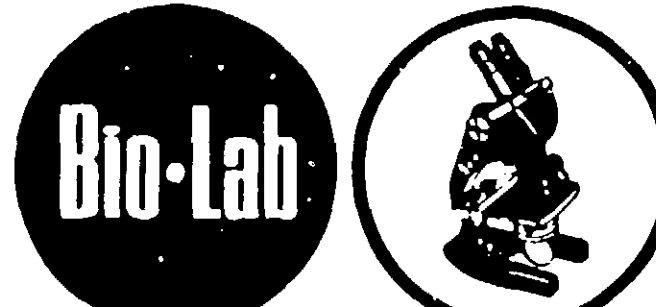
LEADERSHIP THROUGH RESEARCH AND INTEGRITY

DECATUR • CONYERS, GEORGIA

ACCEPTED

1975

UNDER THE FEDERAL INSECTICIDE ACT FOR ECONOMIC CONTROL UNDER NO. 5185-118



Bio-Lab

Manufacturing Chemists
Microbiologists

Manufactured by:
BIO-LAB, INC.
Decatur, Georgia

DANGER:
KEEP OUT OF REACH OF CHILDREN

(See additional precautions and first aid statement on side panel.)

See specific list of viruses on side panel

Net Contents:

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Alcaligenes sp
Escherichia coli
Escherichia frau
Staphylococcus
Paraclostridium
Pasteurella mult
Proteus morgan
Proteus vulgaris
Pseudomonas a

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GUARDALL X-185[®]

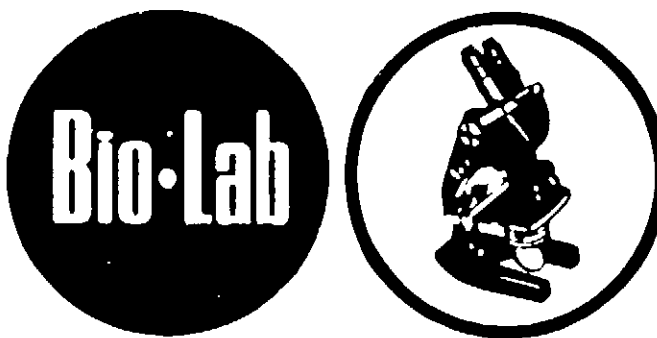
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EPA Reg. No. 5185-118

ANTI-MICROBIAL EFFICACY CHART BACTERIA

Using the A.O.A.C. Use Dilution Test-Method. GUARDALL X-185 is bactericidal on inanimate surfaces against the following organisms, in all recommended dilutions:

Aerobacter aerogenes	Pseudomonas fluorescens	Salmonella senftenberg
Alcaligenes sp.	Salmonella anatis	Salmonella typhosa (Hopkins)
Escherichia coli var. communior	Salmonella blockley	Salmonella typhimurium
Escherichia coli	Salmonella bredeney	Salmonella worthington
Escherichia freundii	Salmonella ct.olerisuis	Shigella sonnei
Staphylococcus aureus	Salmonella derby	Spirillum serpens
Staphylococcus albus	Salmonella californica	Streptococcus pyogenes
Paracolonobacterium coliforme	Salmonella gallinarum	Vibrio metschnikovii
Pasteurella multocida	Salmonella infantis	
Proteus morgani	Salmonella newport	
Proteus vulgaris	Salmonella oranienburg	
Pseudomonas aeruginosa	Salmonella pullorum	

GUARDALL X-185 is bacteriostatic on inanimate surfaces against all above listed bacteria and the following spore forming organisms:

TUBERCLE BACILLUS

Using the A.O.A.C. Tuberculocidal Test Method, Guardall X-185 is an effective germicide at a dilution of 1:100 (1 quart to 25 gallons of water) against *Mycobacterium tuberculosis* Var. bovis BCG.

FUNGI

Using the A.O.A.C. Fungicidal Test Method, Guardall X-185 is fungicidal at the use rate of 1 quart of X-185 to 25 gallons water (1:100) on inanimate surfaces against the following organisms known to be pathogenic to poultry:

Aspergillus glaucus	Monilia albicans	Aspergillus fumigatus
Asperillus niger	Trichophyton sp.	

Using the A.O.A.C. Fungicidal Test Method, Guardall X-185 is fungicidal at a use dilution of 1 quart to 25 gallons of water (1:100) to the following commonly occurring fungi, whose pathogenicity has not yet been established:

Actinomyces sp.	Fusarium sp.	Paecilomyces sp.
Alternaria sp.	Mucor sp.	Rhizopus sp.
Cladosporium sp.	Nigrospora sp.	

*VIRUSES

Using accepted virus propagation and test methods, Guardall X-185 is effective on inanimate surfaces against the following viruses, in all recommended dilutions:

Mycoplasma gallisepticum (PPLO)	Newcastle
Fowl pox	Bovine rhinotracheitis virus
Infectious bronchitis	Para-influenza-3 virus
Laryngotracheitis disease	

LEUKOSIS

GUARDALL X-185 was an effective disinfectant against avian leukosis agent (Acute Marek's Disease) when the agent was exposed *in vitro* to the recommended use dilution for fifteen (15) minutes. Following exposure to the disinfectant, viability of the disease agent was determined by inoculation into susceptible chickens. The role of the environment in the transmission of this disease in poultry flocks has not been conclusively established.

EPA Est. No. 5185-GA-1