

# ECOSTERIL

ECOSTERIL is an eco-friendly, non-toxic, environmental disinfectant for critical area fumigation, surface disinfection and water disinfectant. It is having fast biocidal activity with Bacterial, Virucidal (Incl HIV and HBV), Tuberculocidal, Fungicidal and Sporocidal action.

ECOSTERIL is complex of silver ion and hydrogen peroxide. It's having synergistic effect which destroys all microorganisms.

## ADVANTAGES

- Reliably kills bacteria, viruses, yeasts and fungi.
- Do not leave any sticky or unpleasant residues.
- Cost effective.
- Superior than alcohols, quaternary ammonium compounds, phenolics.
- Environment friendly. Disintegrates 100% into water and oxygen.
- Its having excellent material compatibility.
- Do not liberate toxic aldehyde vapors.
- Superior sporocidal, bacteriocidal, fungicidal, mycobacteriocidal and virucidal.
- Does not lead to development of bacterial resistance organism.

## MECHANISM OF ACTION

The elemental oxygen ( $O_2$ ) separated by the hydrogen peroxide attacks the cell walls of the micro-organisms directly. The chemical reaction between the oxygen and the cell wall molecules will cause these to be denatured and destroyed. This effect is intensified by the silver ions which form a bond with the disulfide bridge of certain proteins of micro-organisms, thereby inactivating or precipitating these proteins.

## CONTENTS

Hydrogen Peroxide 11.0% w/v  
Silver Nitrate 0.01% w/v

## APPLICATIONS

### MEDICAL

It is used for critical area fumigation and surface disinfections in Operation Theaters, ICUs, Wards, polyclinics, dental clinics, OPDs, Blood Banks, clinical/diagnostic laboratories etc.

### INDUSTRIAL

In Pharmaceutical (Manufacturing, Research & Development), food and dairy industry as environment & surface disinfectant.

### GENERAL

It is used for water disinfection.

## STANDARD GUIDELINE FOR USE

### AERIAL FUMIGATION

Prepare 20.0% solution. For 1000 ft<sup>3</sup> take 200ml of ECOSTERIL and add 800ml of D. M. Water. Spray it for 20 minutes.

Contact time : 60 minutes.

1000 CU FT	200	800	20
2000 CU FT	400	1600	40
4000 CU FT	800	3200	80
5000 CU FT	1000	4000	100

### SURFACE DISINFECTION

Prepare 5.0% solution : Take 250ml of ECOSTERIL for 5 liters of water.

Contact time : 60 minutes



## STORAGE

- Keep away from children.
- Keep in a dry place
- Store upright in original closed container.
- Do not expose to direct sunlight or heating sources.
- Avoid contact with combustible materials.
- Never tamper with bottle cap vent.
- Avoid contamination from any source.
- Expiration date applies to properly store unused product.
- Do not use after expiration date.



## DISPOSAL

The use solution does not require additional specific safety measures for people or the environment. Dispose off any unused material including the container in accordance with all applicable Indian and Local regulations.

## PACKING

- 1 Liter • 5 Liter

## EFFICACY DATA

ECOSTERIL is effective against.

- Bacteria(gram positive/gram negative).
- Yeasts and fungi.
- Virus(with and without protective coat).
- A broad protozoa spectrum.

Species	Time, Min.	Log 10 reduction factor
Staphylacoccus aureus	5	> 6.84
Listeria monocytogenes	5	> 6.18
Pseudomonas aeruginosa	5	> 6.39
E.coli	5	> 6.4
Salmonella enteritidis	5	> 6.85
Legionella pneumonophila	5	> 5.84
Bacillus cereus	45	3.0
Candida albicans	30	> 4.97
Saccharomyces cerevisiae	30	> 5.80
Aspegillus flavus	15	> 4.70
A.niger	15	> 4.30
Penicillium chrysogenum	30	> 4.60

Marketed by :



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**SURNI LABS**