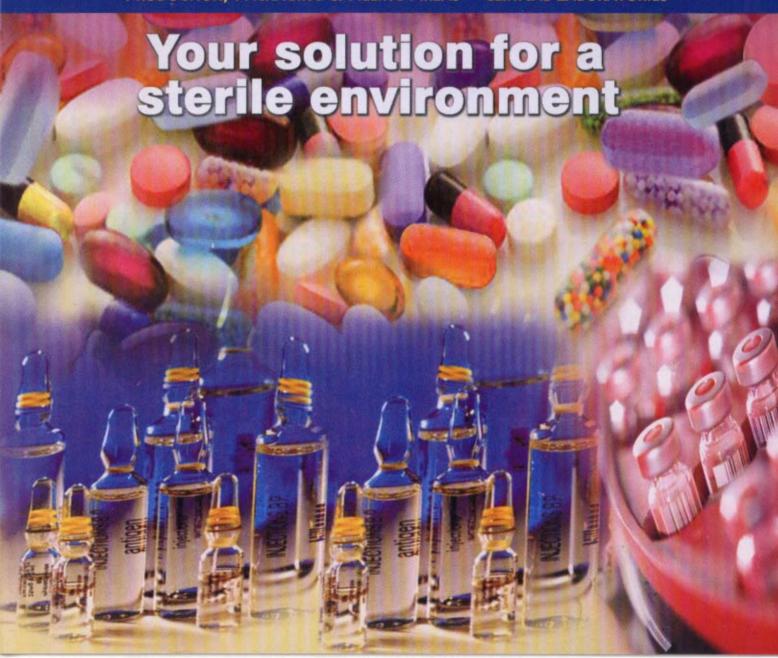


IDEAL FOR: INJECTABLES · FORMULATIONS · R & D LABORATORIES · QC & QA LABORATORIES PRODUCTION, PACKAGING & FILLING AREAS · CLINICAL LABORATORIES



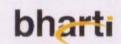


Non-toxic · Eco-friendly · Chlorine-free · Requires

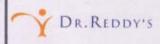


CHLORINE-FREE FUMIGANT



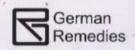














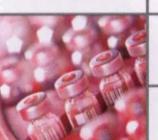


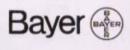






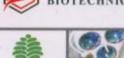




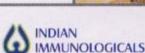




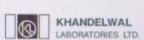




EMMELLEN BIOTECH







Virosil Pharma™ is a revolutionary, eco-friendly, non-toxic disinfectant and fumigant (aerosol) for use in Pharmaceutical Companies.

Virosil Pharma™ is a patented formulation manufactured in India in technical collaboration with Sanosil AG of Switzerland.

The formulation is approved by the USFDA auditors for pharma companies in India, German Society for Hygiene & Microbiology, Food & Drug Administration (MS), Public Health Department of Switzerland and by Healthcare Departments of Western Europe, Australia and the Middle East.

Sanosil Biotech is the first company in India to pioneer the novel concept of eco-friendly fumigation. The company has great respect for human health and the environment.

Virosil Pharma™ has proved to be effective in controlling aerial bacteria and fungus present in sterile rooms for injectables, formulations and tablet manufacturing facilities.

An area of 1,000 cubic feet can be completely sterile within 60 minutes of spraying without causing any irritation to the eyes, nose and skin - unlike conventionally used formulations.

The recommended ULV fogger gives a very fine mist which allows the formulation to be suspended in the atmosphere for a longer period of time, guaranteeing a 100% kill on all air-borne bacterias and fungus.

Virosil Pharma™ is also very effective in disinfection of all critical surfaces that come in contact with Pharma products. Instruments, bottles and caps can be easily disinfected using a 5% solution.

There is no requirement to re-wash equipments and surfaces disinfected with Virosil Pharma™ since it is H,O, based and decomposes into water and oxygen.

no rinsing · Non-mutagenic · Highly effective



The above is a select list of our satisfied customers. All logos and trademarks are the property of the respective owners.

AREAS OF APPLICATIONS

· Aerial Fumigation

Ideal replacement for Formaldehyde Fumigation. 20% concentration fumigates 1000 cu ft area within 60 minutes with the help of a ULV fogger.

Surface Disinfection

5% solution of Virosil Pharma ensures that floors, walls, table & linen remain sterile

Instruments Disinfection

10% solution of Virosil Pharma disinfects instruments.

· DM Plant Disinfection

A recommended dosage of Virosil Pharma would eliminate complete microbial load present in the storage tank, raw/process water, pipelines, filters and membranes of the system, thereby achieving better water quality and maintaining the bioload under controlled limits.

· AHU/Air-Conditioning System

Apply as per recommendations

Storage Tank Disinfection

Spray the surfaces of the tank with a 5% solution.

Outstanding advantages of Virosil Pharma in related Industries are:

Virosil Pharma™ when sprayed in sterile rooms completely inactivates all forms of bacteria, fungi and viruses within 60 minutes. It is also very widely used for disinfection of Air Handling Units, Air Shafts, Ducts and Filters which are common breeding ground for bacteria and bio-films. Its non-toxic and non-corrosive properties has completely replaced the use of Formaldehyde fumigation practices.

Virosil Pharma™ is the only truly tried and tested water disinfectant that gives consistent results and is highly effective in combating bio-films. Its colourless, odourless and tasteless properties makes it completely biodegradable. It can be easily dosed and monitored. Is widely used for pipeline disinfection as well as for disinfection of storage tanks and raw water.

Virosil Pharma™ effectively disinfects all critical surfaces that come in contact with pharma products. Complete surface/wall disinfection of production, packing, filling, storage and other desired facilities where a micro free environment is required. Also all instrument, equipments, machinery, storage tanks, pipelines, etc. can be made completely pathogen free.

TECHNICAL DATA

Hydrogen peroxide: 10%

Silver Nitrate: 0.01%

Colour: clear as water

Sensitivity: sensitive to light,

to be stored in dark

pH-value: approx pH 1.5

Odour: odourless

Foaming characteristics:

does not foam

Mixible ratio: miscible with

water in any ratio

Coat formation: no coat

Corrosive property: at the prescribed concentrations and at a temperature of below 50° C no corrosion should occur







Microbiological Analysis	Initial Counts before addition of Virosil	ADDITION OF VIROSIL			Percentage of Reduction
Total count of E. Coli per ml	ditt of 3 × 10 -	Time Interval	100 ppm	200 ppm	100 %
		30 minutes	zero	zero	
		1 hour	zero	zero	
		2 hours	zero	zero	
		6 hours	zero	zero	

SURFACE

Test Organism .	Initial Count	ADDITION OF VIROSIL		
		Count after 30 secs -	Count after 5 mins	Count after 30 mins
Escherichia coli	3.2 x 10**	Nil*	Nil*	Nil*
Pseudomonas aeruginosa	4.8 x 10**	Nil*	Nil*	Nil*
Salmonella typhimurium	4.0 x10°*	Nil*	Nil*	Nil*
Staphylococcus aureus	3.0 x10**	64*	14*	Nil*
Candida albicans	6.2 x10°*	Nil*	Nil*	Nil*
Aspergillus niger	80	Nil*	Nil*	Nil*

*cfu/sq cm



Furnigation trails were taken by exposing Nutrient Agar plates before and after furnigation for a period of 30 minutes at different corners of the rooms. The bacterial colonies were counted after incubation period of 48 hours.

Plate No.	No. of colonies before fumigation	No. of colonies after fumigation with Virosil Pharma
1	173	7
2	11	Nil
3	31	Nil
4	31	Nil

Virosil Pharma has shown to reduce the bacterial load by 97.15%

Test Reports of Reputed Institutions

Virosil Pharma™ has been tested by several reputed and renowned Institutions in India with respect to its disinfection and fumigation applications in the Pharmaceuticals, and Healthcare Industry. Following are some of the Institutions, where extensive tests & trials are conducted on Virosil Pharma's applications.

 Haffkine's Institute of India, Mumbai Efficacy Test Against Various Micro-organisms

- Indian Drugs Research Laboratory, Pune Toxicity Report
- Italab Pvt Ltd
 Surface Disinfection
- State Public Health Laboratory Report on Bacteriological Examination of Water
- KEM Hospital Infection Committee
 Study on efficacy against various pathogens
- Reports of the Fumigation Trials carried out at Astra IDL, Serum Institute of India, Nicholas Piramal, Medlar Labs (Cipla)

Caution: The efficacy and widespread popularity of Virosil Pharma has led to several inferior quality, look alike products coming into the market. For complete protection, always insist on Virosil Pharma from Sanosil.



5 litre can with

ULV Fogger





Manufactured and Marketed By

Sanosil Biotech Pvt Ltd

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