

Silkworm rearing is considered to be the most sensitive activity leading to the production of silk cocoons. The major constraint in cocoon production is the diseases in silkworms. Different micro-organisms *viz.*, viruses, bacteria, fungi and microsporidia cause diseases in silkworm. The common diseases are Grasserie, Flacherie, Muscardine and Pebrine.



Diseased silkworms extrude pathogens into the rearing environment and form the source of infection for spreading the disease. These pathogens have the ability to remain in active state in the rearing environment for longer period and contaminate the rearing environment.

### Management of diseases

- Disinfection of silkworm rearing house, surroundings and rearing appliances using effective disinfectant
- Practice of personal and rearing hygiene

- Rearing silkworms under optimum environmental conditions and spacing
- Feeding sufficient quantity and quality mulberry.

### Disinfection and hygiene using Serifit

Serifit (Chlorine based product) was developed by CSRTI, Mysuru and M/s Sree Rayalaseema Hi-Strength Hypo Ltd, Kurnool, Andhra Pradesh



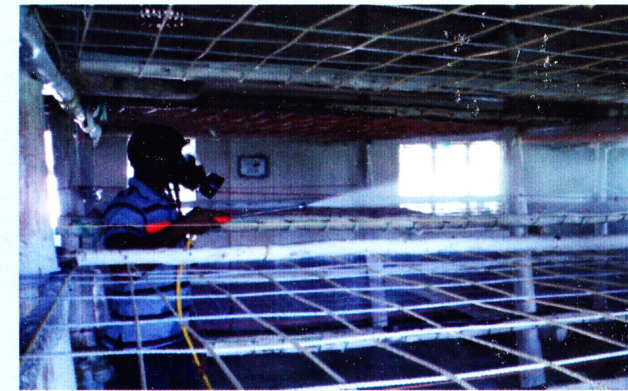
### Preparation of 0.2% disinfectant solution

- Prepare 0.2% Serifit disinfectant solution by adding 200g of Serifit granules in 100 liters of water (2.0 g /litre of water)
- After adding Serifit stir thoroughly with a stick
- Keep for 30 min for dissolution



### Disinfection

- The Serifit solution should be sprayed in a rearing house (standard height - 3 meters/ 10 ft) @ 1.5 litre / sq m. floor area or 140 ml / sq ft. floor area
- If the height is more than the standard height, add @ 0.5 litre/ sq m. or 14ml / sq ft. to the total disinfectant solution for every additional meter or foot respectively
- Power sprayer should be used to ensure uniform spray
- Conduct two times disinfection - After the completion of crop and before initiation of next crop



### Precautions

- As the disinfectant contains high chlorine, wear disinfection mask to protect the eyes, nose and ears during preparation/ disinfection
- Keep away from heat/sparks/open flames/ hot surface

## Maintenance of hygiene during rearing

- Disinfect the hands and feet with 0.20% Serifit solution before entering the rearing house
- Wipe the rearing house floor with 0.20% Serifit solution after every bed cleaning
- Collect the diseased/dead larvae in a basin containing 0.20% Serifit solution and destroy them by burning



## Features of Serifit

- Serifit has germicidal activity against silkworm pathogens
- Preparation of disinfectant solution is easy
- Easy to handle and transport
- Highly soluble, does not form slurry and do not block sprayer nozzle
- Effective under all environmental conditions and less corrosive at recommended concentration
- The shelf life of Serifit is one year from the date of manufacture

## Advantages of Serifit

- Serifit is as effective against common pathogens of silkworm as any other disinfectant
- It suits all types of rearing houses under all environmental conditions and needs no air tight conditions
- Less corrosive at the recommended concentration
- It is stable with a shelf life of one year
- Easy transportation and storage
- Usage of Serifit at field (farmers') level improved the cocoon yield by 6.73 kg/100 dfls over the existing recommended disinfectants
- Hence, Serifit can be used as disinfectant for effective sanitation.

### Text

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# SERIFIT

## Disinfectant for Effective Sanitation

**Serifit**

Broad Spectrum Disinfectant for effective sanitation in sericulture

**Key Features**

- Effective against silkworm pathogens
- Improves crop yield
- Easy to transport & Long Storage
- Disinfectant solution can be used after 30 min. of preparation

Jointly developed by  
Central Sericultural Research and Training Institute  
Central Silk Board, Ministry of Textiles, Govt. of India  
Mysuru - 570 008, Karnataka, India.  
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