

A mezőgazdaság
fertőtlenítője!



SteriClean product family

SteriClean Plant and **SteriClean Industry** products are contact biocide disinfectants used against bacteria, fungus, germs and algae that sterilizes within seconds without remaining residues. **SteriClean Plant** is an effective plant conditioner, while **SteriClean Industry** is perfect for sterilization of agricultural products and contaminated crops.

SteriClean product family can be applied in the following areas:

- disinfection of agricultural products, crops
- treatment of cereals contaminated with Fusarium
- reducing DON toxin level of contaminated crop
- washing and flushing fruits and vegetables
- treating plants against bacteria and fungus diseases
- disinfection of air and binding dust particles
- sterilization of warehouses, silos, tanks, containers, pipe systems, etc.
- disinfection of equipment and areas, stables, kennels used for animal keep
- sterilization of drinking-water, swimming pools, wells and fountains

Mechanism

SteriClean Plant and **SteriClean Industry** is colorless, mildly acidic liquid with pH 3 value and a strong chlorine smell. It contains sodium hypochlorite, sodium chloride, hydrogen peroxide, chlorine dioxide and ozone substances. Due to an innovative electrochemical technique the mentioned substances change into particles that have high oxidation-reduction potential. This gives SteriClean Plant and SteriClean Industry a superior sporicidal and biocidal activity; bacteria, fungi and algae are destroyed physically through instant oxidation, which means that microorganisms cannot develop resistance against the disinfectant solution. SteriClean is completely safe and non-hazardous to humans and to environment. Since SteriClean is an electrochemically activated substance, it utilizes the different charge between the microorganisms and the solution. SteriClean destroys microorganisms as follows:

1. The membrane of microbes is negatively charged, while SteriClean consists of positively charged molecules.
2. The positively charged SteriClean molecules are attracted to the negatively charged membranes of microbes.
3. Once SteriClean contacts the microbe, it deactivates structural and metabolic membrane proteins, which leads to instant microbial death.

SteriClean Plant

SteriClean Plant is an effective contact plant conditioner. We recommend it for cultivation of vegetables, fruits and crops. SteriClean Plant enhances overall the conditions of plant, moreover:

- increases the size of plant
- enlarges the foliage surface
- raises the number of blossoms
- gives higher yield
- boosts size and weight of berries and bunches
- improves quality of plant

According to the observations concluded from our researches in vineyards, SteriClean Plant effectively eliminates Peronospora, powdery-mildew, Botrytis cinerea, while in orchards it stops Polystigma rubrum, Fabrea maculata diseases. Even with 10% dosage of SteriClean Plant will restrain the development of diseases on cracked or scarred berries - for instance after a hail storm - while preventive usage of SteriClean Plant will ensure complete

A mezőgazdaság
fertőtlenítője!



disease control. Infected plants can be treated even before vintage, since it does not enter living tissues, no chemical substances remain.

SteriClean Industry

SteriClean Industry is a contact disinfectant for agricultural products and contaminated crops. We advise SteriClean Industry biocid product for the following treatments:

- disinfection of agricultural products, crops
- disinfection of equipments, surfaces, silos and tanks in food industry
- sterilization of cold stores and warehouses
- treatment of cereals contaminated with Fusarium fungus
- reducing DON toxin level of contaminated crop
- washing and flushing fruits and vegetables

According to the observations concluded from our researches on contaminated cereals, it was stated that SteriClean Industry kills fungus on the surface of grain; moreover, it significantly reduces DON toxin level of the crop. Different treatment practices are suggested for disinfecting crops. For the best result, grain has to be evenly covered with SteriClean Industry in 10-50 micron size. This can be achieved by cold fogging machine or by traditional sprayer with misting nozzles. Cold fogging machine allows SteriClean Industry to be pulverized and sprayed in a form of a thick and disinfecting fog that fills up the air completely. Grain has to pass through this fog allowing it to contact the whole surface of the grain. Cold fog should be created close to loading and unloading points of grain in a closed system. Cold fogging machine or traditional sprayers can be mounted above the conveyors or loading swivel block at several points to ensure complete contact to the contaminated grain.

Fruits and vegetables can be treated with SteriClean Industry disinfectant to prolong their storage life. The previously cleaned fruits or vegetables have to be dipped into the washing tank, which contains 10% SteriClean Industry. This sterilizing bath ensures that the surface of the fruit or vegetable becomes entirely bacteria and fungus free. In case of goods stored in boxes in warehouses or in cold stores, apply SteriClean Industry with cold fogging machine to protect the goods against germs spread in air. It is advisable to complete this treatment monthly.

Application and storage

Use SteriClean Plant in the early or late hours of the day in windless, calm weather. The disinfectant has to be used according to common rules and its functions. While applying SteriClean Plant and SteriClean Industry all safety measures have to be met. There are no chemical remains; it is non-hazardous to environment, to soil and to water basis. Store it in a dark, cool, dry room, apart from acids in its original packaging. The unopened product lasts three months long; use it right away after opening it. Keep out of reach of children.

Contact

Mr. Arpad Branyi
PANNON-TRADE Kft.

+36-70-620-4301
+36-96-517-777

branyi.arpad@pannon-trade.com
www.stericlean.hu