



## Non - Chlorine Liquid Disinfectant

**HUWA-SAN®** is an environmentally responsible powerful liquid disinfectant. Its unique formula is based on highly potentiated stabilized hydrogen peroxide and complex silver salts. These two chemicals are combined in the one solution by patented process - the result is a powerful broad spectrum disinfectant that is completely safe to the environment, yet leaves no unpleasant tastes or odors.

**HUWA-SAN®** has proven bactericidal, algicidal, fungicidal, sporicidal and viricidal efficacy. Contact times are relatively short, requiring only 5 to 35 minutes for disinfection. Furthermore, **HUWA-SAN®** can be employed as a sole disinfectant. The actual required dosage of **HUWA-SAN®** will be dependent on the degree of microbiological contamination and the contact time allowed. For higher contamination and for minimal contact time the maximum dosage should be applied. This can then be reduced as bacterial levels are brought down. **HUWA-SAN®** is not affected by photo-de-composition, temperature and aeration.

The American Society of Microbiology has listed Hydrogen Peroxide as a broad spectrum biocide with efficacy against all bacteria and viruses. **HUWA-SAN®** contain Colloidal Silver and it is because of this addition that it is even more efficient than standard peroxide in killing micro-organisms, but much faster and with a residual efficacy which standard peroxide does not have.

**HUWA-SAN®** has a unique ability to penetrate and break up biological deposits such as biofilm, even at low residual concentrations.

The actual mode of bacterial inactivation by **HUWA-SAN®** is quite complicated, however studies carried out by several researchers indicates that **HUWA-SAN®** is a non specific disinfectant, whereby cell death is due to several effects. Primary lesions, causing inactivation of the organism, is due to a combination of reactions. The two components in **HUWA-SAN®**, namely Hydrogen peroxide and colloidal Silver have a synergistic effect where the combined effect is greater than the sum of the individual effects. It is suggested that silver acts in blocking, irreversibly, enzymatic reactions.

## Features and Benefits:

**HUWA-SAN®** does **not** form any harmful or toxic by- products, since its only decomposition products are water and oxygen. It is therefore friendly to you and your environment. It is extremely stable. Remains effective through a pH range of 2 - 9, and a temperature range from 0oC to 95oC.

**HUWA-SAN®** eliminates obnoxious odors arising from putrefactive processes, yet leaves no residual odors of its own. The result is a more pleasant working environment. At the recommended dose

**HUWA-SAN®** does not produce any undesirable tastes and odors.

**HUWA-SAN®** can be dosed directly into the water, it does not require expensive on site generation equipment. The concentration of

**HUWA-SAN®** in 'use solutions' can be measured on site using **HUWA-SAN®** test strips or a Lovibond Comparator. This method is quick, clean, simple and accurate.

## Areas of Application:

Water supply systems (sprinkler system, drip irrigation, circulation water)

Biofilm removal  
Optimal and equal supply of high quality Water to the crops

Water conditioning

Infection control  
Algae growth prevention  
Conditioning rinsing and washing waters

Pre- and post harvest treatment

Extending shelf life Infection control

Surface and equipment disinfection

Transport vehicles  
Instruments  
Greenhouse surfaces  
Storage containers  
Machines, conveyors & Substrates

Food Industry Pig farming / Poultry farming / Restaurants / Bars / Hotels

Surface Floors & walls disinfection  
Material Surface disinfection (through immersion)  
Water supply & production pipelines cleaning (biofilm removal) and disinfection  
Disinfection of the process water  
Air disinfection



 **Huwa-San<sup>®</sup>**

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