



# Huwa-San 50 AGRO

## Disinfectant for agriculture

Ecological disinfectant based on active oxygen

(colourless, odourless, biodegradable)

### Intended use

Huwa-San 50 AGRO can be used for:

- 1) Irrigation-water disinfection
- 2) Removal of biofilm in water systems (sprinkler system, drip irrigation, circulation water)
- 3) Disinfection of surfaces, floors, walls and equipment in agriculture (greenhouses, hydroculture, hydroponics, etc)
- 4) Substrate disinfection
- 5) Surface disinfection of entire greenhouses by product vaporisation (“fogging”)

Huwa-San 50 AGRO is suitable for killing bacteria, fungi, viruses, spores and algae.

### Intended users

Greenhouses, hydroculture, horticulture, floriculture, juvenile producers, seed growers, etc.

### Recommendations for use:

#### 1) Irrigation-water disinfection

Starting with a clean system, the recommended dosage to prevent growth of micro-organisms is 20 to 40 ppm HuwaSan 50 Agro (20 to 40ml per 1000l water). With Huwa-San 50 AGRO, optimal microbiological water quality is ensured, and algae growth is prevented.

#### 2) Removal of Biofilm

Huwa-San AGRO can be used to cleanse the water system and remove biofilm. Fill the installation at a Huwa-San 50 AGRO concentration in accordance with the table below.

Concentration	How to dilute	Contact time
1-2%	1-2l Huwa-San 50 AGRO/ 100l Water	1 to 2 hours
0.1-0.2%	0.1-0.2l (100-200ml) Huwa-San 50 AGRO/ 100l Water	24 hours

It is important that the complete system should be filled at the concentration indicated. This can be monitored using test strips at the furthest tap point. Leave the concentration for the desired contact time, making sure the system is able to vent at certain points, since oxygen can be formed when the biofilm is removed. Next, rinse out the system thoroughly to remove any contamination released (biofilm). The water coming out cannot be used to irrigate the crops. Rinse the system with pure tapwater until Huwa-San 50 AGRO is no longer measured in the rinsing water of the furthest tap point.

#### 3) Disinfection of surfaces, floors, walls and equipment

First wash and rinse the surfaces, floors, walls and materials to be disinfected thoroughly with water.



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Depending on the contact time, the recommended concentration of Huwa-San 50 AGRO varies between 2% and 6%.

Dosage	How to dilute	Contact time
2%	2l Huwa-San 50 AGRO/ 100l Water	60 minutes
6%	6l Huwa-San 50 AGRO/ 100l Water	5 minutes

### 3.1 Surfaces, floors and walls

Sprinkle the surface with the 2-6% diluted solution. Use as much as is needed to keep the surface moist during the contact period.

Allow it to work for 5-60 minutes. Rinse afterwards, if desired. Otherwise sweep surfaces and floors dry.

### 3.2 Equipment

Immerse the material and equipment in a 1-2% solution of Huwa-San 50 AGRO, and allow to interact for at least 15 minutes. Rinse the material afterwards, if desired.

### 4 Seed and seedlings treatment

Seeds can be treated in order to prevent disease. Immerse the seeds in a 1% Huwa-San 50 AGRO solution for 15-30 minutes.

Seedlings can also be treated before processing by dipping them in a Huwa-San 50 AGRO solution. Dip the non-rooted seedlings in 50 ppm Huwa-San AGRO TR-50 for about 10 seconds to protect the seedlings from root decay or base rot, which often occurs in plants.

### 4) Fogging

Apply 3 - 6% Huwa-San 50 AGRO with a fogging device for at least one hour. Ensure that atomisation of Huwa-San 50 AGRO is done such that all surfaces to be treated are reached.

Dosage	How to dilute
3%	3l Huwa-San 50 AGRO/ 100l Water
6%	6l Huwa-San 50 AGRO/ 100l Water



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### Summary

Intended Use	Dosage	How to dilute	Contact time
Irrigation water disinfection	40ppm	0.004l (4ml) Huwa-San 50 AGRO/ 100l Water	Continuous dosage
Removal of biofilm	1-2%	1-2l Huwa-San 50 AGRO/ 100l water	1-2 hours
	0.1-0.2%	0.1-0.2l (100-200ml) Huwa-San 50 AGRO/ 100l water	24 hours
Disinfection of surfaces, floors, walls	2-6%	2-6l Huwa-San 50 AGRO/ 100l water	60 minutes (2%) 5 minutes (6%)
Disinfection of materials	1-2%	1-2l Huwa-San 50 AGRO/ 100l water	Immerse for 15 minutes
Seed & Seedling treatment	50ppm	0.005l (5ml) Huwa-San 50 AGRO/ 100l water	Dip for 10 seconds
Fogging	3-6%	3-6l Huwa-San 50 AGRO/ 100l water	Vaporise product at least 1 hour

### Properties

- Biodegradable
- Does not foam
- Odourless and colourless
- Completely mixable with water
- Broad pH range
- Active at temperatures up to to 95°C
- Remains active and stable in the absence of pollution (“depot effect”)

### Specifications

Appearance: colourless, odourless fluid  
 Active ingredients: hydrogen peroxide 49.5% – 49.9%  
 Density (kg/l at 15°C): 1,190 - 1,198



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### Safety

Before using the product, read the enclosed safety data-sheet carefully. Take necessary precautions, and wear appropriate personal protective gear.

Hazard pictograms:



GHS05: corrosion



GHS07: exclamation mark

Hazard warnings:

- H302: Harmful if swallowed.
- H318: Causes serious eye damage.

Precautionary warnings:

- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338: IF IN EYES: rinse carefully with water for several minutes. Remove contact lenses, if present and easily done. Continue rinsing.

### Biodegradability

Huwa-San 50 AGRO is biodegradable due to its decomposition into oxygen and water (in accordance with AFNOR T 73-260 directives).

### Storage conditions and shelf-life

Store the product in its sealed container at 10 – 30°C, in a dark, low-traffic area. In its closed packaging, the product can be kept for at least 2 years.

### Packaging

Cans of 5, 10 or 25 kg.

### Origin of the product

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