

HUWA-SAN TR-50 HORTICULTURE
DISINFECTANT FOR HORTICULTURE

Ecological disinfectant based on active oxygen

Intended use

Huwa-San TR-50 HORTICULTURE 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) Surface disinfection of entire greenhouses by product vaporisation ("fogging")

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

Intended users

Horticulture and Floriculture growers - Propagators - Seed producing companies.

Recommendations for use:

1) Irrigation-water disinfection

Starting with a clean system, the recommended dosage to prevent growth of micro-organisms is 20 to 50 ppm HuwaSan TR-50 HORTICULTURE (measure at the farthest point in the water system, 20 to 50ml per 1000l water). With Huwa-San TR-50 HORTICULTURE, optimal microbiological water quality is ensured, and algae growth is prevented.

2) Removal of biofilm

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

Concentration	How to dilute	Contact time
1-2%	1-2l Huwa-San TR-50 HORTICULTURE/ 100l Water	1 to 2 hours
0.1-0.2%	0.1-0.2l (100-200ml) Huwa-San TR-50 HORTICULTURE/ 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 water containing at least 50 ppm Huwa-San TR-50 HORTICULTURE to prevent recontamination.

3) Disinfection of surfaces, floors, walls and equipment

First wash and rinse the surfaces, floors, walls and materials to be disinfected thoroughly with water.
Depending on the contact time, the recommended concentration of Huwa-San TR-50 HORTICULTURE varies between 2% and 6%.

Dosage	How to dilute	Contact time
2%	2l Huwa-San TR-50 HORTICULTURE/ 100l Water	60 minutes
6%	6l Huwa-San TR-50 HORTICULTURE/ 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 leave in place.

3.2 Equipment

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

4) Fogging

Apply 25% Huwa-San TR-50 HORTICULTURE with a fogging device for at least one hour. Ensure that atomization of Huwa-San TR-50 HORTICULTURE is done such that all surfaces to be treated are reached. Use 4L of the 25% solution per 10.000m³ of greenhouse.

Summary

Intended Use	Dosage	How to dilute	Contact time
Irrigation water disinfection	20-50ppm	0.005l (5ml) Huwa-San TR-50 HORTICULTURE/ 100l Water	Continuous dosage
Removal of biofilm	1-2% 0.1-0.2%	1-2l Huwa-San TR-50 HORTICULTURE/ 100l water 0.1-0.2l (100-200ml) Huwa-San TR-50 HORTICULTURE/ 100l water	1-2 hours 24 hours
Disinfection of surfaces, floors, walls	2-6%	2-6l Huwa-San TR-50 HORTICULTURE/ 100l water	60 minutes (2%) 5 minutes (6%)
Disinfection of materials	1-2%	1-2l Huwa-San TR-50 HORTICULTURE/ 100l water	Immerse for 15 minutes
Fogging	25%	12.5L Huwa-San TR-50 HORTICULTURE/ 100l water	Vaporize product at least 1 hour

Properties

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

Specifications

Appearance: colourless, odourless fluid
Active ingredients: hydrogen peroxide 49.0% – 49,9%
Density (kg/l at 15°C): 1,190 - 1,198.

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.
- H315: Causes skin irritation
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation
- H412: Harmful to aquatic life with long lasting effects

Precautionary warnings:

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P270: Do not eat, drink or smoke when using this product
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338: IF IN EYES: rinse carefully with water for several minutes. Remove contact lenses, if present and easily done. Continue rinsing.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed
- P501: Dispose of contents/container according to local regulations.

For more information we refer to the MSDS of the product.

Biodegradability

Huwa-San TR-50 F&B 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.
Drums of 240 kg.
IBC's of 1200kg.

Origin of the product

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