



Certificate of Registration

This Certificate of Registration is issued to:

Hydrowater Limited

of **40 Firth Street, Drury AUCKLAND 2113**

The agricultural chemical known by the trade name of:

Huwa-San TR 50 Ag/Hort

No. **P009479**

Is hereby registered under the Agricultural Compounds and Veterinary Medicines Act 1997

This registration expires on the 9th day of February 2021

The conditions placed on this approval are attached.

Dated on this 9th day of February 2018

Signed: **Maree Zinzley**
Manager Approvals Operations
Regulation and Assurance

Acting under delegated authority



This certificate is a record of the product approval that was current on the date the certificate was issued. It reflects the public register entry for the product at that time. From time to time the wording of registration conditions may change, resulting in a change on the public register for that product. As a certificate is not necessarily re-issued for such changes, consult the public register for the current approval of the product

Front Panel
Label

KEEP OUT OF REACH OF CHILDREN

Huwa – San TR 50 Ag/Hort

For Agricultural, Horticultural and Post-Harvest Use

Contains 591.5 g/L Hydrogen Peroxide in the form of a Soluble Peroxide



A sustainable way of disinfection for

- surfaces, floors, walls and equipment food-processing industries (e.g. storage tanks, bulk transport tanks, spray tanks, packhouses, greenhouses, hydroponic systems....)
- installations that may come into contact with water (process water, storage and distribution systems)
- internal pipe systems for biofilm removal,
- Process water,
- Irrigation water
- Room disinfection through vaporization (fogging),

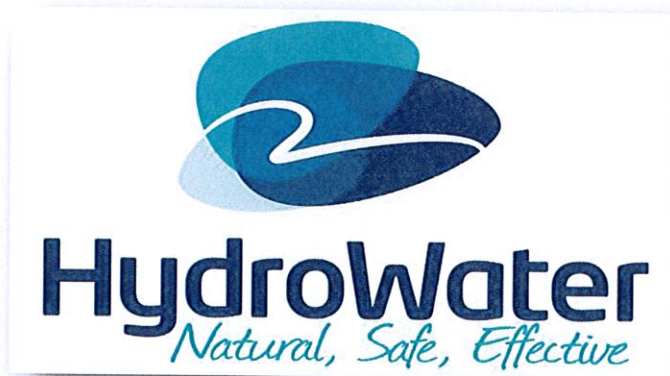
09/02/2018

Manufactured by

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www.huwasan.com

Registrant and Distributed by

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www.hydrowater.co.nz



A company of the Jones Trading Group

Registered pursuant to the ACVM Act 1997; No P9479 See www.foodsafety.govt.nz for registration conditions.

Registered pursuant to HSNO Act 1996, Group Standard HSR2632

LABEL

Back Panel

General Information

Huwa – San TR 50 Ag/Hort combines hydrogen peroxide and silver ions in a highly reactive solution that releases the oxidative action of hydrogen peroxide and the antibacterial action of silver.

Huwa – San TR 50 Ag/Hort breaks down safely into pure oxygen and water.

- Is chlorine free
- has a wide host range so can be considered as **broad spectrum biocide**
- is tasteless, odourless & non foaming
- is effective over wide pH and temperature range
- has no recorded bacterial resistance
- eliminates bio-films from pipes & fittings
- does not produce dangerous by-products



IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

Instructions for use:

1. First clean surfaces, machinery, equipment, installations and piping systems thoroughly. Rinse used cleansing agents away with pure water. Remove excess water. Dilute **Huwa-San TR-50 Ag/Hort** with tap water.

1a. Disinfection of surfaces, floors and walls: Spray with a 6% solution (60 ml **Huwa-San TR-50 Ag/Hort** in 1000 ml solution). Use as much liquid as needed to keep the surfaces wet during the disinfection period. Allow the product to have effect for at least 5 minutes. Rinse thoroughly with water after treatment.

1b. Disinfection of equipment and machinery: Submerge the material in a 6% solution (60 ml **Huwa-San TR-50 Ag/Hort** in 1000 ml solution) and allow the product to have effect for at least 5 minutes. Rinse thoroughly with water after treatment.

2. Disinfection of installations which come into contact with water: Fill the system with a 1% solution (10 ml **Huwa-San TR-50 Ag/Hort** per 1000 ml water) and allow the product to interact for at least 60 minutes. Bleed the installations during the disinfection period. Rinse the piping system with pure tap water until no more hydrogen peroxide is measured at the end of the installation.

3. Disinfection of internal pipe systems (CIP): Fill the system with a 6% solution (60 ml **Huwa-San TR-50 Ag/Hort** per 1000 ml water) and let the product work for at least 30 minutes. Bleed the system during disinfection. In case of application in drinking water systems, rinse the pipelines thoroughly so that loose contamination (biofilm) can be removed. Rinse with pure tap water until no more hydrogen peroxide is measured at the end of the pipeline. Afterwards, start to apply **Huwa-San TR-50 Ag/Hort** continuously.

4. Process water disinfection: Starting with a clean system, the recommended dosage to prevent growth of micro-organisms is 20 to 40 ppm **Huwa-San TR-50 Ag/Hort** (20 to 40 ml per 1000 L water). The concentration can be determined using **Huwa-San Test Strips**. With **Huwa-San TR-50 Ag/Hort**, optimal microbiological water quality is ensured.

5. Disinfection of pipelines and inner surfaces: Fill the system with a 6% solution (60 ml **Huwa-San TR-50 Ag/Hort** per 1000 ml water) and let the product work for at least 30 minutes. It is important that the complete system should be filled with this concentration. Make 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 tap water until no more hydrogen peroxide is measured in the rinsing water of the furthest tap point. Afterwards, start to apply **Huwa-San TR-50 Ag/Hort** continuously (see 6).

6. Irrigation water disinfection: Starting with a clean system, the recommended dosage to prevent growth of micro-organisms is 20 to 40 ppm **Huwa-San TR-50 Ag/Hort** (20 to 40 ml per 1000L water). The concentration can be determined using **Huwa-San Test Strips**. It is important that the complete system should be filled with this concentration. With **Huwa-San TR-50 Ag/Hort**, optimal microbiological water quality is ensured and algae growth is prevented

7. Room & Greenhouse disinfection by fogging: Fogging of empty rooms is done with a 12 to 24% solution of **Huwa-San TR-50 Ag/Hort** for at least 60 minutes.

8. **Huwa-San TR-50 Ag/Hort** is a Post-harvest treatment of Fruit and Vegetables :

Crops	Rate	Post Harvest Disease	Comments
Pipfruit	70mL – 120mL/1000L which equates to 40 – 70 ppm Hydrogen Peroxide.	<i>Penicillium spp</i> <i>Botrytis cinerea</i> <i>Mucor spp</i> <i>Alternaria spp</i>	Control of post-harvest rot causing organisms and human pathogens when used as a spray on fungicide and bactericide treatment for fruit.
Stonefruit	70mL – 120mL/1000L which equates to 40 – 70 ppm Hydrogen Peroxide.	<i>Rhizopus stolonifer</i> <i>Alternaria spp</i> <i>Penicillium spp</i> <i>Mucor spp</i>	Use in combination with Hydrogen Peroxide test strips
BerryFruit	70mL – 120mL/1000L which equates to 40 – 70 ppm Hydrogen Peroxide.	<i>Rhizopus stolonifer</i> <i>Alternaria spp</i> <i>Botrytis cinerea</i>	
Glasshouse Tomatoes, Cucumbers and Peppers	85mL/1000L which equates to 50 ppm Hydrogen Peroxide.	<i>Rhizopus stolonifer</i> <i>Alternaria spp</i> <i>Botrytis cinerea</i> <i>Erwinia carotovora</i> <i>Fusarium spp</i>	
Salad Vegetables	85mL/1000L which equates to 50 ppm Hydrogen Peroxide.	<i>Botrytis cinerea</i> <i>Erwinia carotovora</i>	



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Hazard statements:

H272 May intensify fire, oxidizer. Eye damage 1, H318 Causes serious eye damage. Acute toxicity (oral) 4, H302 Harmful if swallowed. Skin irritation 2, H314 Causes severe skin burns and eye damage, H315 Causes skin irritation. Specific target organ toxicity single exposure 3a, H335 May cause respiratory irritation. Chronic aquatic toxicity 3, H412 (Harmful to aquatic life with long lasting effects).

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces, NO SMOKING. P220 Keep/store away from clothing. P221 Take any precautions to avoid mixing with combustibles. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth, do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363 Wash contaminated clothing before reuse. P370+P380+P375 In case of fire: Evacuate area; Fight fire remotely due to the risk of explosion.

First aid measures:

*Inhalation: Fresh air, rest. Semi upright sitting position. Call emergency services, hospital admittance is advised. Show label, packaging or patient information leaflet.

*Ingestion: Rinse mouth. Call anti-poison center and inquire if drinking active coal suspension is advised. Call emergency services, hospital admittance is advised. Show label, packaging or patient information leaflet.

*Skin: Rinse skin with plenty of water or shower for 15 minutes. Meanwhile remove contaminated clothing and shoes. Seek medical advice immediately. Show label, packaging or patient information leaflet.

*Eyes: Rinse with plenty of water for 10 minutes. Rinse AWAY from unaffected eye. If wearing contact lenses: if easy to remove, do so before rinsing. Immediately contact an ophthalmologist. Show label, packaging or patient information leaflet.

Remarks for the physician

Prehospital: symptomatic treatment. Contact anti-poison centre for further hospital treatment. **24-Hour Emergency Number: NEW ZEALAND:0800 POISON (0800 764 766)**

Environment:

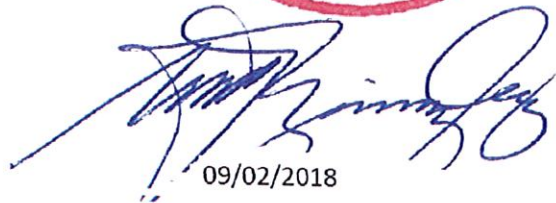
May not be disposed in drain water. Product is harmful to fishes. Toxic to invertebrates (Daphnia). Toxic to algae

General storage conditions: Store at room temperature out of direct sunlight. Clean, incombustible, lockable, joint less, smooth concrete floor.

Do not store together with alkalis, reducing agents, metallic salts and combustible substances.

Do not store on wooden shelves or pallets




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Safe disposal:


Dispose in a safe manner in accordance with local/national regulations. The diluted aqueous solution can be released into drain if it is accordance with local regulations; the undiluted waste must not be released into drain. Can be incinerated, when in compliance with the local regulations; rinse package before disposal. Empty containers that will be returned to the manufacturer must not be rinsed with water. Empty containers must not be used for other purposes.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Hydrowater Ltd. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Hydrowater Ltd makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Hydrowater Ltd is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Hydrowater Ltd disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or, at Hydrowater Ltd's election, the replacement of product.




09/02/2018