

IMPORTANT NOTE:
Concentrations vary depending on the nature of the work, the environment and the products. Please refer to each product's technical bulletin for optimal use, or contact your representative.



SUMMARY OF PROCEDURES

Cleaning and Disinfection of Greenhouses

PREMISES

CLEANERS:

- ADHERE NC**
(Alkaline gel cleaner)
- PENBLITZ 228M***
(Alkaline cleaner / high foaming, aluminum safe)
- BIO-EZE 3****
(Biodegradable alkaline foaming cleaner)

DISINFECTANTS:

- TERAMINE NR***
(Bactericide, fungicide)
- BIO-SAN****
(Bactericide, fungicide)

FREQUENCY

Before each use

RECOMMENDED USE

- Wrapping equipment
- Harvesting containers
- Plastic pots
- Tools, knives, pruning shears
- Chariots de transport
- Trailers
- Trucks
- Entrances
- Boots
- Cart wheels
- Fork lifts



DIRECTIONS FOR USE

1. Manually remove a maximum of soil.
2. Rinse surfaces with clean water.
3. Apply the alkaline detergent (**Adhere NC, Penblitz 228M or Bio-Eze 3**) with a foam gun at a dilution rate between 0.5% and 5%.
4. Allow to dwell between 5 to 25 minutes. **Do not allow to dry on the surface.**
5. Stubborn soils can be scrubbed with a push broom, floor pad or brush.
6. Rinse with clean water.
7. Ensure that there is no water accumulation on the surfaces before applying the disinfectant (this could inhibit the action of the disinfectant).
8. Apply the disinfectant with a foam gun, at a dilution rate starting at 0.4% for **Teramine NR** or 0.7% for **Bio-San**.
9. Dry as quickly as possible.

EQUIPMENT

Foamer



Double foamer



ARTESIAN WELL (Shock treatment)

PRODUCT:

DICHLOROSAN A+B
(Chlorine dioxide based sanitizer)

FREQUENCY

Twice a year (spring and autumn) or when needed

OBJECTIVE

Sanitize the well.

RECOMMENDED USE

- Shock treatment for artesian wells.



Keep the container closed and ensure adequate ventilation due to the chlorine dioxide gas that can emanate from the solution.

DIRECTION FOR USE

1. Prepare a **2000 ppm stock solution prior to dilution and use.** A mixture of 1% (10g / liter) of **DICHLOROSAN A** and 1% (10g /liter) of **DICHLOROSAN B** will give a 2000 ppm solution of chlorine dioxide.
2. Stir until dissolved completely. Close container and let react for 30 minutes.
3. Add 25mL (1 oz.) of 2000ppm stock solution for every foot of length (6" diameter well) to give 10ppm of chlorine dioxide for 10 days.
(Ex.: For a 200 ft well, add 5 litres of stock solution)
(Multiply 200 X 25mL = 5000mL = 5 Litres)

EQUIPMENT

20 litre, identified pail and test strips for chlorine dioxide



WATER LINES (Shock treatment)

CLEANER:

FOAMCHEK
(Acid cleaner / low-foaming)

DISINFECTANT:

HYPER O*
(Sanitizer)

FREQUENCY

At year-end sanitation (Empty greenhouses)

OBJECTIVE

Sanitize the water lines.

RECOMMENDED USE

- Water lines



DIRECTION FOR USE

Apply the disinfectant following the shock treatment with Foamchek. Make sure the lines are thoroughly flushed between the two procedures.

1. Adjust the proportioner to 1:64.
2. Insert the proportioner hose in the **Foamchek**, or **Hyper O** container.
3. Circulate the product in the lines for 5-8 minutes.
4. Ensure that all lines have been filled with solution.
5. Once all the lines are filled, shut off all water lines, then the proportioner.
6. Allow to dwell. **Foamchek**: 8 to 16 hours, **Hyper O**: 1 to 5 hours.
7. After dwell, rinse all lines with clean water.
8. Ensure that there is no clogging or blockages in the lines.

EQUIPMENT

Proportioner / medicator



WATER TANKS

CLEANERS:

FOAMCHEK
(Acid cleaner / non-foaming)

RIDSTONE
(Acid cleaner / high-foaming)

DISINFECTANTS:

TERAMINE NR*
(Bactericide, fungicide)

BIO-SAN**
(Bactericide, fungicide)

FREQUENCY

At year-end sanitation (Empty greenhouses)

OBJECTIVE

To remove mineral and organic deposits in water tanks.

RECOMMENDED USE

- Water tanks



DIRECTION FOR USE

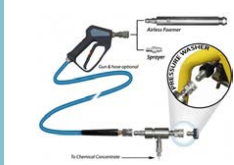
1. Completely drain the tank.
2. Rinse out the interior with clean water.
3. Spray a solution of **Foamchek** or **Ridstone** on the walls at a dilution of 1 to 5%.
4. If required, use a brush on the walls.
5. Allow to dwell for 3 to 5 minutes.
6. Rinse with clean water.
7. Foam the disinfectant solution at a dilution rate starting at 0.4% for **Teramine NR** or 0.7% for **Bio-San** on all surfaces.
8. Allow to dwell for 15 to 20 minutes.
9. Rinse thoroughly with potable water to remove all traces of disinfectant solution prior to re-filling.

EQUIPMENT

Foamer



Double foamer



WATER TREATMENT (Continuous)

PRODUCT:

DICHLOROSAN A+B
(Chlorine dioxide based sanitizer)

FREQUENCY

Continuously or when needed

OBJECTIVE

Sanitize the water.

RECOMMENDED USE

- Water lines
- Water tanks



Keep the container closed and ensure adequate ventilation due to the chlorine dioxide gas that can emanate from the solution.

DIRECTION FOR USE

1. Prepare a 2000ppm stock solution prior to dilution and use. A mixture of 1% (10g / litre) of **DICHLOROSAN A** and 1% (10g /litre) of **DICHLOROSAN B** will give a 2000ppm solution of chlorine dioxide. Mix an equal quantity of **DICHLOROSAN A** and **DICHLOROSAN B** in water, mix gently and let react for 30 minutes.
2. Dilute the stock solution to obtain a solution of 1ppm.
3. Continue treatment for 10 days or on an annual basis.

EQUIPMENT

20 litre, identified pail, Prominant pump, proportioner / medicator



WATER TREATMENT (Continuous)

PRODUCTS:

HYPER SAN*
(No rinse sanitizer at 15 ppm)

HYPER 15
(No rinse sanitizer at 70 ppm)

FREQUENCY

During fruit / vegetable preparation and wrapping.

OBJECTIVE

Ensures that wholesome fruits are shipped to their final destination.

RECOMMENDED USE

- Fruit / vegetable treatment during preparation and wrapping



DIRECTION FOR USE

1. Prepare a **Hyper San** solution of 30 mL of per 100 litre of water (15 ppm of peracetic acid) or 45mL per 100 litres of water (70 ppm of peracetic acid) for **Hyper 15**.
2. Submerge the fruits/vegetables for 2 minutes.
3. Remove excess water or drain. Final rinse with potable water is not necessary.

EQUIPMENT

Washing tub, soaking

