Active Content: 65% – 68% active ingredients	**Certification:** SANS 1827 & SANS 1853 certified; NRCS registered	**Form:** Chips | 25 kg drums

GEARTH HarvestSan is a high-strength calcium hypochlorite based water disinfectant for post-harvest washing of fruit and vegetables, disinfection of supply and process water, and cleaning of hard surfaces, equipment, utensils and processing facilities. It is an effective bactericide and fungicide that combats undesirable fermentation and rot through the food processing chain, and is specifically formulated for the control of Listeria monocytogenes.

HarvestSan Chips is the chips form of the product: Compressed chips for automated erosion feeders and inline dosing systems requiring controlled dissolution. The chemistry, active content and certifications are identical to HarvestSan Granular — the form is selected to suit the dosing equipment installed on site. The solid format preserves the active ingredients for an extended shelf life. It is the typical control disinfectant used in CRI trial work for the evaluation of potential alternative disinfectants.

1 KEY FEATURES & BENEFITS

- SANS 1827 and SANS 1853 certified for water
- NRCS registered for disinfectants in the food and beverage industry
- High 65% – 68% active ingredient content
- Solid product — preserves active ingredients for extended shelf life
- Kills 99.999% of Listeria in 60 seconds
- Strict pH control of 6.5 – 7.5 maximises the presence of hypochlorous acid molecules for the highest possible kill rate
- Hypochlorous acid (HOCl) is a far more efficient biocide than the hypochlorite ion (ClO^-)
- Minimises release of irritating and potentially hazardous chlorine gas
- Supplied as chips — Compressed chips for automated erosion feeders and inline dosing systems requiring controlled dissolution
- The typical control disinfectant in CRI alternative-disinfectant trial work
- Manufactured in South Africa using modern, high-quality processes

2 APPLICATIONS

- Post-harvest washing of fruit and vegetables
- Disinfection of potable, effluent and irrigation water
- Supply water for beverage and bottling plants
- Poultry spin chillers
- Sanitising of animal carcasses
- Disinfection and cleaning of equipment and utensils in the food and farming industry
- Hard-surface cleaning of processing facilities, coops, farming facilities and aviaries
- Livestock and agriculture applications

3 DIRECTIONS FOR USE

- Step 1 — Dose: Refer to the dosage table for the application. Add the product to water to dissolve — never add water to the product; reversing this procedure is unsafe.

- Step 2 — Control pH: Maintain wash water pH between 6.5 and 7.5 to keep the active present as hypochlorous acid and maximise kill rate.
- Step 3 — Protect: Wear gloves when applying. Avoid contact with eyes, skin and mucous membranes, and avoid inhaling the concentrated product.
- Step 4 — Do Not Blend: Do not mix this product with other products.
- Step 5 — Handle Packaging: Keep the product in its original packaging, firmly closed, in shade in a dry, well-ventilated area away from foodstuffs and other chemical products. Dry the packaging before discarding and do not re-use empty packaging.
- Do not swallow. Use in conjunction with the Safety Data Sheet supplied.

4 TECHNICAL SPECIFICATIONS

Physical State	Solid — chips
Active Chemistry	Calcium hypochlorite based
Active Content	65% – 68%
Operating pH	6.5 – 7.5 (strict control required for maximum kill rate)
Efficacy	Kills 99.999% of Listeria in 60 seconds
Biocidal Species	Hypochlorous acid (HOCl) — a far more efficient biocide than the hypochlorite ion (ClO^-)
Spectrum	Bactericide and fungicide; formulated for control of Listeria monocytogenes
Certification	SANS 1827 and SANS 1853 certified for water; NRCS registered
Chlorine Gas Release	Minimised by formulation and pH control
Dosing Method	Compressed chips for automated erosion feeders and inline dosing systems requiring controlled dissolution.
Companion Product	HarvestSan Granular — identical chemistry in granular form
Blending	Do not mix with other products
Country of Manufacture	South Africa

5 STORAGE & SHELF LIFE

Shelf Life	Stable for 24 months
Storage Temperature	Store at low ambient temperature below 25 °C
Storage Conditions	Store in a cool, dry, well-ventilated area in shade, in original packaging kept firmly closed, away from foodstuffs and other chemical products.
Packaging Disposal	Dry packaging before discarding. Do not re-use empty packaging.

6 PACKAGING

25 kg	Drum — HarvestSan Chips

This Technical Data Sheet reflects GEARTH's current product specification and application guidance at the date of issue. GEARTH (Pty) Ltd continually develops its formulations and reserves the right to revise specifications without prior notice. Because site conditions, substrates and effluent loads vary, the user remains responsible for confirming suitability for a specific application — GEARTH technical staff are available to assist with site-specific dosing and trial protocols. Handle all products in accordance with the applicable Safety Data Sheet and South African health, safety and environmental legislation.