

# GEARTH

## GEARTH Multipurpose Cleaner

Bio-Based Lactic Acid Disinfectant & Multipurpose Cleaner

TECHNICAL DATA SHEET  
TDS-GMP-001 | Rev 1.0 | June 2026

|                                 |                                                       |                                 |
|---------------------------------|-------------------------------------------------------|---------------------------------|
| NRCS Reg. No.: 8054/294433/1264 | SANAS Certified: SANS 51276   SANS 51650   SANS 53704 | Manufactured: ISO 9001 Facility |
|---------------------------------|-------------------------------------------------------|---------------------------------|

### 1 PRODUCT DESCRIPTION

GEARTH Multipurpose Cleaner is a breakthrough development in green biocide technology, formulated with a proprietary surfactant-optimised, bio-based lactic acid system. Bio-based lactic acid is of natural origin, produced via a biological fermentation process, and is combined with a plant-derived multiple-surfactant system to deliver outstanding disinfecting, cleaning, and foaming performance.

Unlike traditional biocides — which often pose risks such as human and animal health hazards, environmental toxicity, and reliance on synthetic raw materials — GEARTH Multipurpose Cleaner delivers a safer, greener solution without compromising efficacy. The product achieves a 60-second, 99.999% bactericidal kill rate and has received independent laboratory approval for bactericidal, fungicidal, yeasticidal, and sporicidal performance to strict SANS standards.

### 2 KEY FEATURES & BENEFITS

- Potent broad-spectrum disinfecting properties
- Bactericidal, fungicidal, yeasticidal & sporicidal
- 60-second 99.999% bactericidal kill rate
- Bio-based and plant-derived formulation
- Safe, biodegradable and eco-friendly formula
- ECOCERT-approved lactic acid raw material
- Manufactured in an ISO 9001 certified facility
- SANAS laboratory tested and NRCS registered
- Moistens skin; lactic acid supports collagen production and skin firmness
- Powerful cleaning and foaming action
- Stable shelf life of up to 24 months
- Approved for food, industrial, domestic & institutional use

### 3 APPLICATIONS

GEARTH Multipurpose Cleaner is approved and suitable for use across a wide range of sectors, including: **Food Processing & Beverage** facilities; **Industrial & Mining** environments; **Institutional & Commercial** buildings; **Domestic & Residential** applications; and **Hospitality & Healthcare** settings. The product is effective for surface disinfection, general-purpose cleaning, hygiene maintenance, and high-contact area sanitisation.

### 4 DIRECTIONS FOR USE

Apply product directly to the target surface. Scrub the surface thoroughly to remove soiling and organic matter, then allow the product to remain in contact with the surface for the specified contact time (refer to Dilution Guidelines below). Rinse the surface with clean water after application.

### 5 DILUTION GUIDELINES

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| Standard   | Mode of Action | Dilution                              | Contact Time |
|------------|----------------|---------------------------------------|--------------|
| SANS 51276 | Bactericidal   | Undiluted up to 1:15 with clean water | 5 minutes    |
| SANS 51650 | Fungicidal     | Undiluted                             | 15 minutes   |
| SANS 53704 | Sporicidal     | Undiluted                             | 60 minutes   |

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TECHNICAL SPECIFICATIONS

|                        |                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| Physical State         | Liquid                                                                                                    |
| Appearance             | Not Specified                                                                                             |
| Specific Gravity       | Not Specified                                                                                             |
| pH                     | Not Specified                                                                                             |
| Solubility             | Not Specified                                                                                             |
| Odour                  | Not Specified                                                                                             |
| Flash Point            | Not Specified                                                                                             |
| Boiling Point          | Not Specified                                                                                             |
| Active Ingredient      | Bio-based lactic acid (fermentation-derived)                                                              |
| Formulation Type       | Proprietary surfactant-optimised bio-based lactic acid with plant-derived multiple surfactant system      |
| Biocide Classification | Bactericidal, Fungicidal, Yeasticidal, Sporicidal                                                         |
| Kill Rate              | 99.999% bactericidal within 60 seconds                                                                    |
| Biodegradability       | Biodegradable — biological and plant-based components                                                     |
| ECOCERT Status         | Lactic acid approved by ECOCERT as raw material of natural origin for use in detergents and personal care |

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STORAGE & SHELF LIFE

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Shelf Life         | 24 months from date of manufacture.                                                             |
| Storage Conditions | Store at ambient temperature, away from direct sunlight. Keep container sealed when not in use. |

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PACKAGING

|           |                                                                           |
|-----------|---------------------------------------------------------------------------|
| Packaging | Not Specified — contact GEARTH (Pty) Ltd for available packaging options. |
|-----------|---------------------------------------------------------------------------|

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ENVIRONMENTAL INFORMATION

- Formulated from eco-friendly, bio-based and plant-derived components.
- Biodegradable formula — safe for people, animals, and the environment.
- Bio-based lactic acid is produced via a natural biological fermentation process.
- Lactic acid is approved by ECOCERT as a raw material of natural origin for use in detergents and personal care products.
- Carries Greenpath Certified Eco-Seal and EcoChoice Approved status.
- Represents a safer alternative to conventional synthetic biocides which carry risks of human toxicity and environmental contamination.

The information contained in this Technical Data Sheet is based on data believed to be accurate at the time of publication. GEARTH (Pty) Ltd reserves the right to update or revise specifications without prior notice. Users are responsible for determining the suitability of this product for their specific application. Always handle cleaning products in accordance with applicable health, safety and environmental legislation.