GEARTH PureSurface

Bio-Based Lactic Acid Hard Surface Disinfectant | NRCS Registered | SANAS Certified

Chemistry: Surfactant-optimised bio-based lactic acid formulation	**Registration:** NRCS Reg. No. 8054/294433/1264	**Kill Rate:** 99.999% bactericidal in 60 seconds

GEARTH PureSurface is a breakthrough in green biocide technology, built on a proprietary surfactant-optimised bio-based lactic acid formulation. Bio-based lactic acid is of natural origin, derived from a biological fermentation process, and is combined here with a plant-derived multiple surfactant system.

Traditional biocides frequently pose significant risks — harmful effects on humans and animals, environmental toxicity, and a largely synthetic origin. PureSurface avoids that profile without sacrificing performance: it delivers a 60 second 99.999% bactericidal kill rate and is fungicidal, yeasticidal and sporicidal approved to strict SANS laboratory standards.

1 KEY FEATURES & BENEFITS

- 60 second 99.999% bactericidal kill rate
- Fungicidal, yeasticidal and sporicidal — approved to SANS laboratory standards
- SANAS laboratory certified to SANS 51276, SANS 51650 and SANS 53704
- NRCS registered — Reg. No. 8054/294433/1264
- Approved for use in food, industrial, domestic and institutional applications
- Powerful disinfecting, cleaning and foaming properties
- Biological and plant-based, biodegradable formulation
- Manufactured in an ISO 9001 facility
- Moistens the skin; lactic acid is linked with collagen production and skin firming
- Lactic acid is approved by ECOCERT as a raw material of natural origin for use in detergents and personal care
- Stable for up to 24 months

2 APPLICATIONS

- Food processing and food contact surface disinfection
- Industrial hard surface disinfection
- Institutional facilities — hospitals, clinics, schools and care homes
- Commercial premises and washrooms
- Domestic use
- HACCP-controlled environments requiring a registered disinfectant step

3 DIRECTIONS FOR USE

First clean and degrease the surface with GEARTH FoodPro FG550 Degreaser and rinse well. Then apply PureSurface at the

following dilutions and contact times:

Standard	Claim	Dilution	Contact Time
SANS 51276	Bactericidal	Undiluted up to 1 part with 15 parts clean water	5 minutes
SANS 51650	Fungicidal	Undiluted	15 minutes
SANS 53704	Sporicidal	Undiluted	60 minutes

Rinse the surface with clean water after application.

4 TECHNICAL SPECIFICATIONS

Physical State	Liquid
Active Chemistry	Proprietary surfactant-optimised bio-based lactic acid with a plant-derived multiple surfactant system
Lactic Acid Origin	Natural origin, derived from a biological fermentation process; ECOCERT approved raw material
Bactericidal Performance	99.999% kill rate in 60 seconds
Additional Claims	Fungicidal, yeasticidal and sporicidal
Certification	SANAS laboratory certified to SANS 51276, SANS 51650 and SANS 53704
Registration	NRCS Reg. No. 8054/294433/1264
Approved Sectors	Food, industrial, domestic and institutional
Secondary Properties	Powerful cleaning and foaming action; moistens skin
Manufacturing Standard	ISO 9001 facility
Biodegradability	Biodegradable, biological and plant-based
Pre-Clean Requirement	Clean and degrease with GEARTH FoodPro FG550 and rinse before application
Country of Manufacture	South Africa

5 STORAGE & SHELF LIFE

Shelf Life	Stable for 24 months
Storage Conditions	Store at ambient temperature out of direct sunlight, sealed when not in use.

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.