GEARTH

SAFETY DATA SHEET
PureSurface

GHS REV 10

1 Identification

Product identifier	PureSurface
Other means of identification	No data available
Recommended use	HACCP-compliant eco-friendly hard-surface disinfectant.
Restrictions on use	No data available
Supplier	GEARTH (Pty) Ltd, 96 Lazy River Road, Centurion 0157, Gauteng, South Africa
Telephone	012 004 8183 | info@gearth.co.za
Emergency telephone number	**066 214 2274 (24 hours)**

2 Hazards identification

2.1 Classification of the substance or mixture

GHS classification	GHS classification per source: not classified as hazardous.

2.2 Label elements

Hazard pictograms	None required.
Signal word	None.
Hazard statements	None allocated.
Precautionary — prevention	Follow instructions on label; avoid contact with eyes; use only in well-ventilated areas.
Precautionary — response	No data available
Precautionary — storage	No data available
Precautionary — disposal	No data available

2.3 Other hazards

OTHER HAZARDS DISCLOSURE

Slippery when spilt. As a water-based product, spillage on electrical equipment will cause short-circuits (source data).

3 Composition / information on ingredients

Ingredient	CAS no.	EC no.	Conc. % (w/w)	Classification
Lactic acid	50-21-5	No data available	≥ 1 – < 3	Not classified as hazardous in the mixture (source data)
Proprietary biodegradable surfactant blend	Not applicable	Not applicable	≥ 5 – < 10	Not classified as hazardous in the mixture (source data)
Total			**100**	

Exact composition percentages are withheld as a trade secret in accordance with the HCA Regulations, 2021. The classification of withheld components is reflected above.

4 First-aid measures

4.1 Description of first-aid measures

Inhalation	Supply fresh air. Seek medical attention in case of complaints.
Skin contact	Wash off with soap and plenty of water. If symptoms develop, seek medical attention.
Eye contact	Rinse opened eye under running water for 15 minutes. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting. Wash mouth out thoroughly with water. If symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects	No data available

4.3 Indication of any immediate medical attention and special treatment needed

Medical attention	Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Methods suitable to surrounding conditions: water spray jet, foam, dry fire-extinguishing substance.
Unsuitable extinguishing media	No data available

5.2 Special hazards arising from the substance or mixture

Specific hazards / hazardous combustion products	Non-combustible; after evaporation of aqueous components under fire conditions, the non-aqueous component may decompose and/or burn. Spillage on electrical equipment will cause short-circuits.

5.3 Advice for firefighters

Protective equipment for firefighters	Self-contained breathing apparatus in positive-pressure mode and full protective clothing; water spray may be used to cool heat-exposed containers.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	Slippery when spilt — avoid accidents. Wear appropriate PPE and clothing to minimise exposure; increase ventilation.
Environmental precautions	If contamination of sewers or waterways occurs, inform the local water and waste management authorities in accordance with local regulations.
Methods and material for containment and cleaning up	Contain the spill if possible; place inert absorbent material onto the spillage; collect into a suitable labelled container. Do not dilute the material. Dispose of waste per applicable local and national regulations.

7 Handling and storage

7.1 Precautions for safe handling

Safe handling	Follow label instructions. Avoid contact with eyes; use only in well-ventilated areas; keep containers sealed when not in use; prevent build-up of mists or vapours; avoid inhalation of vapours and mists.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a cool, dry, well-ventilated area out of direct sunlight, in suitable labelled containers, closed when not in use, complying with applicable regulations.
Packaging	5 L, 25 L and 1000 L.
Shelf life	No data available
Incompatibilities	No data available

8 Exposure controls / personal protection

8.1 Control parameters — occupational exposure limits

Substance	OEL type	Value	Source
Product as supplied	—	None established (source statement)	HCA Regs 2021 Annexure 2

8.2 Appropriate engineering controls

Engineering controls	No biological limit values allocated; no special engineering controls (source data).

8.3 Individual protection measures

Eye / face protection	Not required under normal use; industrial applications: safety glasses with side shields or chemical goggles.
Skin / hand protection	Not required under normal use; industrial applications: impervious gloves, cotton overalls buttoned at neck and wrist; chemical-resistant apron for large quantities. Glove material: Impervious material (industrial applications; source data); breakthrough time: No data available
Respiratory protection	Not required under normal use; industrial applications: approved respirator with replaceable mist filter. Filter type: Replaceable mist filter (industrial applications)
Thermal hazards	No data available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Red
Odour	None; odour threshold not determined
Melting point / freezing point	Not available (source data)
Boiling point or initial boiling point and boiling range	Not available (source data)
Flammability	Not applicable per source (solid, gas)
Lower and upper explosion limit / flammability limit	No data available
Flash point	Not available (source data)
Auto-ignition temperature	Not determined (source data)
Decomposition temperature	Not determined (source data)
pH (concentration and temperature stated)	3.5 – 4 (concentration and temperature not stated in source data)
Kinematic viscosity	No data available
Solubility	Soluble / miscible in water
Partition coefficient n-octanol/water (log Kow)	Lactic acid: log Pow −0.72 (source component data)
Vapour pressure	No data available (source, 20 °C)
Density and/or relative density	Relative density not determined (source data)
Relative vapour density	Not determined (source data)
Particle characteristics	Not applicable

9.2 Other information

Explosive properties	Product does not present an explosion hazard (source data)
Oxidising properties	No data available
Bulk density	No data available
Active solids	No data available

10 Stability and reactivity

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	Stable under normal conditions of storage and handling.
Possibility of hazardous reactions	No data available
Conditions to avoid	Direct sunlight.
Incompatible materials	No further relevant information available (source data).
Hazardous decomposition products	No data available

11 Toxicological information

Likely routes of exposure	Inhalation of mists; skin and eye contact; ingestion.
Symptoms related to exposure	No data available
Delayed and chronic effects	No data available

Numerical measures of toxicity

Endpoint	Species	Route	Value
Acute toxicity estimate (oral)	Product (calculated)	Oral	> 2000 mg/kg (calculation method; source data)
Acute toxicity estimate (dermal)	Product (calculated)	Dermal	> 2000 mg/kg (calculation method; source data)
LD50 (oral)	Rat	Oral	1600 mg/kg (surfactant-blend component; source data)
LC50 (inhalation, 4 h, dust/mist)	Rabbit	Inhalation	> 5 mg/L (surfactant-blend component; source data)
LD50 (dermal)	Rabbit	Dermal	> 2000 mg/kg (surfactant-blend component; source data)
LD50 (oral)	Rat	Oral	3543 mg/kg (lactic acid; OPPTS 870.1100; source data)
LC50 (inhalation, 4 h, dust/mist)	Rabbit	Inhalation	> 7.94 mg/L (lactic acid; OECD TG 403; source data)

Product values are calculated acute-toxicity estimates; the remaining values are component data (surfactant blend, lactic acid) as printed in the source — read-across, not mixture test data.

Acute toxicity — dermal	Acute toxicity estimate > 2000 mg/kg (calculated; source data).
Acute toxicity — inhalation	Component data only — see numerical table (source data).
Skin corrosion / irritation	No data available
Serious eye damage / irritation	No data available
Respiratory sensitisation	No data available
Skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT — single exposure	No data available
STOT — repeated exposure	No data available
Aspiration hazard	Not classified based on available information (source data).

12 Ecological information

Aquatic toxicity

Species	Endpoint	Value	Duration
No data available	No data available	No data available	No data available

Source states no ecological data are available for this material.

Persistence and degradability — method	No data available
Persistence and degradability — result	No data available
Bioaccumulative potential	Bioconcentration factor (BCF) 70.79 (source component data); lactic acid: not applicable.
Mobility in soil	Not available (source data).
Other adverse effects	Prevent this material entering waterways, drains and sewers (source environmental-protection note).

13 Disposal considerations

Waste residues	No data available
Disposal methods	Dispose of spilled or waste material in accordance with applicable local and national regulations.
Contaminated packaging	No data available
Waste classification (NEM:WA 59 of 2008, GN R635)	No data available

14 Transport information

Mode	UN no.	Proper shipping name	Class	PG
Road (SANS 10228 / ADR)	Not applicable	Not regulated	Not applicable	Not applicable
Rail (RID)	Not applicable	Not regulated	Not applicable	Not applicable
Sea (IMDG)	Not applicable	Not regulated	Not applicable	Not applicable
Air (IATA)	Not applicable	Not regulated	Not applicable	Not applicable

Marine pollutant	No data available
Transport in bulk (IMO instruments)	Not applicable
Special precautions for user	No data available

15 Regulatory information

Safety, health and environmental regulations specific to the product	Occupational Health and Safety Act 85 of 1993; Regulations for Hazardous Chemical Agents, 2021; NEM:WA 59 of 2008; No poison schedule number allocated (Standard for the Uniform Scheduling of Medicines and Poisons); no prohibition / licensing requirements (source citations).
NRCS VC 8054 status	No data available
Ecolabel certification	No data available
Chemical safety assessment	No data available

16 Other information

Date of preparation	18 August 2026
Latest revision	Rev 1.0, 18 August 2026
Summary of changes	First GEARTH issue (Rev 1.0). Safety content transferred unchanged from the source manufacturer's MSDS (dated 17 January 2022, revised 11 September 2025); no data re-tested or re-derived.
Full text of hazard (H) statements	None allocated by the source data.
Full text of precautionary (P) statements	None allocated by the source data.
Key to abbreviations	GHS — Globally Harmonized System; OEL — occupational exposure limit; STOT — specific target organ toxicity; PG — packing group; SG — specific gravity; CAS — Chemical Abstracts Service; HCA — hazardous chemical agents.
Classification method	Source manufacturer states a GHS classification outcome (not classified as hazardous). Alignment with UN GHS Rev 10 to be confirmed.
Training advice	Use only according to the instructions for use. Personnel handling the concentrate should be familiar with the first-aid and spill measures in Sections 4 and 6.
Disclaimer	This information is based on present knowledge and describes the product for the purposes of health, safety and environmental requirements only. It does not constitute a guarantee of the properties of the product. Final determination of suitability for any use is the sole responsibility of the user.

SIGN-OFF

Prepared by	GEARTH (Pty) Ltd
Document ref	SDS-GEA-032
Revision	1.0 (18 August 2026)
Supersedes	None — first GEARTH issue
Next review	August 2028