GEARTH

SAFETY DATA SHEET
PureSan

GHS REV 10

1 Identification

Product identifier	PureSan
Other means of identification	No data available
Recommended use	Alcohol-free hand sanitiser.
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	Not classified under GHS Rev 10 by the source data (source declares the product non-hazardous per its criteria). Source health hazards: may be irritating to eyes; may be harmful if swallowed.

2.2 Label elements

Hazard pictograms	No data available
Signal word	No data available
Hazard statements	No data available
Precautionary — prevention	Do not breathe vapour (source S23.2).
Precautionary — response	In case of contact with eyes, rinse with water. In case of accident, seek medical advice (source S26, S45).
Precautionary — storage	No data available
Precautionary — disposal	No data available

2.3 Other hazards

OTHER HAZARDS DISCLOSURE

Electrically conductive liquid (source data). Exposure to fire may liberate small amounts of nitrogen oxides in extreme heat.

3 Composition / information on ingredients

Ingredient	CAS no.	EC no.	Conc. % (w/w)	Classification
Benzalkonium chloride	63449-41-2	No data available	No data available	No data available
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	No serious effects (source data).
Skin contact	May cause skin irritation; seek medical attention if irritation persists.
Eye contact	Flush with plenty of water for 15 minutes, ensuring eyelids are held open. Seek medical attention.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects	Eye irritation; possible skin irritation; irritation of throat and upper digestive tract if swallowed.

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	Water spray, foam or dry powder.
Unsuitable extinguishing media	No data available

5.2 Special hazards arising from the substance or mixture

Specific hazards / hazardous combustion products	Exposure to fire may liberate small amounts of nitrogen oxides in extreme heat.

5.3 Advice for firefighters

Protective equipment for firefighters	Self-contained breathing apparatus for large amounts involved in fire.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use a respirator when performing operations involving potential exposure to vapours of the product.
Environmental precautions	Do not flush into surface water or the sanitary sewer system.
Methods and material for containment and cleaning up	Contain and collect spillage with non-combustible absorbent material (sand, earth, diatomaceous earth, vermiculite) and place in a container for disposal according to local / national regulations (see Section 13).

7 Handling and storage

7.1 Precautions for safe handling

Safe handling	Avoid contact with eyes.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep container tightly closed; store away from foodstuffs, heat and direct sunlight, in a dry, cool, well-ventilated place. Plastic containers.
Packaging	2 ml, 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	—	Data not available (source statement)	HCA Regs 2021 Annexure 2

8.2 Appropriate engineering controls

Engineering controls	Data not available (source statement).

8.3 Individual protection measures

Eye / face protection	None required (source data).
Skin / hand protection	None required (source data). Glove material: No data available; breakthrough time: No data available
Respiratory protection	None required (source data). Filter type: Not applicable
Thermal hazards	No data available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Clear
Odour	Neutral
Melting point / freezing point	No data available
Boiling point or initial boiling point and boiling range	No data available
Flammability	Non-flammable; auto-flammability not applicable
Lower and upper explosion limit / flammability limit	No data available
Flash point	Not applicable per source
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH (concentration and temperature stated)	6 – 8 (concentration and temperature not stated in source data)
Kinematic viscosity	No data available
Solubility	Completely soluble in water
Partition coefficient n-octanol/water (log Kow)	No data available
Vapour pressure	As per water (source data)
Density and/or relative density	0.98 g/cm^3
Relative vapour density	No data available
Particle characteristics	Not applicable

9.2 Other information

Explosive properties	Not explosive (source data)
Oxidising properties	No data available
Bulk density	No data available
Active solids	No data available

10 Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	Data not available (source statement).
Conditions to avoid	Data not available (source statement).
Incompatible materials	Anionic detergents.
Hazardous decomposition products	Data not available (source statement).

11 Toxicological information

Likely routes of exposure	Eye and skin contact; ingestion.
Symptoms related to exposure	Eye irritant; can cause skin irritation.
Delayed and chronic effects	No data available

Numerical measures of toxicity

Endpoint	Species	Route	Value
LD50 (acute oral)	Rat	Oral	245 mg/kg — OECD TG 401, based on QAC (source data)
LD50 (acute dermal)	Rat	Dermal	2000 mg/kg — OECD TG 402, based on QAC (source data)

Values are based on the quaternary ammonium compound (QAC) active, per the cited OECD test guidelines — read-across from source component data.

Acute toxicity — dermal	No data available
Acute toxicity — inhalation	No data available
Skin corrosion / irritation	Can cause irritation (source data; not classified).
Serious eye damage / irritation	Irritant (source data; not classified).
Respiratory sensitisation	No data available
Skin sensitisation	Data not available (source statement).
Germ cell mutagenicity	Not mutagenic (in vitro genotoxicity, source data).
Carcinogenicity	Not classified as a carcinogen (source data).
Reproductive toxicity	No data available
STOT — single exposure	No data available
STOT — repeated exposure	No data available
Aspiration hazard	No data available

12 Ecological information

Aquatic toxicity

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

Source reports biodegradability and bioaccumulation statements only; no numerical values.

Persistence and degradability — method	No data available
Persistence and degradability — result	Biodegradable (source statement).
Bioaccumulative potential	No (source statement).
Mobility in soil	No data available (source statement).
Other adverse effects	No data available

13 Disposal considerations

Waste residues	No data available
Disposal methods	The organic ingredients can be incinerated in a suitable installation in accordance with local regulations; contact waste disposal services.
Contaminated packaging	Where possible, recycling is preferred to disposal or incineration.
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	Store at ambient temperature; venting not required (source data).

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; None identified
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 6 March 2020); 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	S23.2 Do not breathe vapour. S26 In case of contact with eyes, rinse with water. S45 In case of accident, seek medical advice.
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	Hazard information carried over from the source manufacturer's assessment (pre-GHS format). Classification against UN GHS Rev 10 criteria 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.

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SIGN-OFF

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Next review	August 2028