

GEARTH GEARTH VirusGuard

MATERIAL SAFETY DATA SHEET

Food industry approved Log 5 hard surface disinfectant — benzalkonium chloride formulation. Ready-to-use liquid.

1 IDENTIFICATION OF THE MATERIAL	
Product Name	GEARTH Surface Disinfectant VirusGuard
Description	Food industry approved Log 5 hard surface disinfectant.
Product Packaging	5 L, 25 L, 100 L, 1 000 L
Supplier	GEARTH (Pty) Ltd
Address	96 Lazy River Road, Centurion, 0157, Gauteng, South Africa
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EMERGENCY CONTACTS	
GEARTH Office:	012 004 8183
Emergency Cell:	066 214 2274
2 COMPOSITION / INFORMATION ON INGREDIENTS	
Active Ingredient	Benzalkonium Chloride
CAS Number	63449-41-2
Note	Quaternary ammonium compound (QAC) — cationic surfactant disinfectant.
3 HAZARDS IDENTIFICATION	
Flammability	Non-flammable.
Electrical	Conductive.
Health Hazard – Eyes	H315 — Irritant.
Health Hazard – Skin	H319 — May cause skin irritation.
Health Hazard – Inhalation	No effects.
Health Hazard – Ingestion	H304 — Will cause irritation to throat and upper digestive tract if swallowed.
Carcinogenicity	Not classified as a carcinogen.
Neurotoxicity	Not classified as a neurotoxin.
4 FIRST AID MEASURES	
Inhalation	No serious effects.
Skin	May cause skin irritation. Seek medical attention if irritation persists.
Eyes	Flush with plenty of water ensuring eyelids are held open, for 15 minutes. Seek medical attention.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Seek medical attention.
5 FIRE FIGHTING MEASURES	
Extinguishing Media	Use water spray, foam or dry powder.
Special Protective Equipment	Self-contained breathing apparatus for large amounts involved in fire.
Specific Hazards	Exposure to fire may liberate small amounts of nitrogen oxides in extreme heat.
6 ACCIDENTAL RELEASE MEASURES	

Personal Precautions	Use respirator when performing operations involving potential exposure to vapours. Place in container for disposal according to local/national regulations.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Spillage	Contain and collect with non-combustible absorbent material (sand, earth, diatomaceous earth, vermiculite).

7 HANDLING AND STORAGE

Handling	Avoid contact with eyes.
Storage	Keep container tightly closed. Store away from foodstuffs. Do not store in heat or direct sunlight. Keep in a dry, cool, well-ventilated place.
Suitable Container	Plastic container.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Data not available.
Occupational Exposure Limits	Data not available.
Eye/Face Protection	Safety goggles.
Skin Protection	Chemical-resistant gloves and protective apron.
Respiratory Protection	Not required under normal conditions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid.
Appearance & Colour	Red.
Odour	Neutral.
Solubility in Water	Completely soluble.
Density	0.98 g/cm ³
pH Value	6–8
Flash Point	Not applicable.
Flammability	Non-flammable.
Auto Flammability	Not applicable.
Explosive Properties	Not explosive.
Vapour Pressure	As per water.

10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to Avoid	Data not available.
Materials to Avoid	Anionic detergents.
Hazardous Decomposition	Data not available.
Hazardous Reactions	Data not available.

11 TOXICOLOGICAL INFORMATION

Sensitisation	Data not available.
Genotoxicity	Not mutagenic.
Acute Dermal Toxicity (LD50)	2 000 mg/kg (Rat) — OECD 402 (based on QAC)
Acute Oral Toxicity (LD50)	245 mg/kg (Rat) — OECD 401 (based on QAC)
Skin	Can cause irritation.

Eyes	Irritant.
12	ECOLOGICAL INFORMATION
Bioaccumulation	No.
Biodegradability	Yes.
Mobility	No data available.
13	DISPOSAL CONSIDERATIONS
Disposal Methods	Organic ingredients can be incinerated in a suitable installation in accordance with local regulations. Contact waste disposal services.
Container Disposal	Where possible, recycling is preferred to disposal or incineration.
14	TRANSPORT INFORMATION
UN No	N/A
ADR/RID Class	N/A
IATA Class	N/A
IMDG Class	N/A
Storage	Store at ambient temperature.
15	REGULATORY INFORMATION
EEC Hazard Classification	N/A
S-Phrase	S23.2 – Do not breathe vapour. S26 – In case of eye contact, rinse with water. S45 – In case of accident, seek medical advice.
Classification	Product has been classified as non-hazardous according to GHS criteria.
16	OTHER INFORMATION
This MSDS summarises GEARTH's best knowledge of the health and safety hazard information available for this product and the measures required to handle and use it safely. Each user should read this MSDS in connection with their specific application and intended use. Disclaimer: The information provided is correct to the best of our knowledge at the date of publication. It is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not a warranty or quality specification. GEARTH (Pty) Ltd shall not be held liable for any damage resulting from handling or contact with this product.	
Document Reference: GEARTH-MSDS-VirusGuard-001	Revision Date: June 2026
Version: 1.0	