

GEARTH GEARTH ScaleGuard

MATERIAL SAFETY DATA SHEET

Descaler & scale-removal solution — proprietary blend of organic and food-grade acids with biodegradable anionic and nonionic surfactants. Ready-to-use formulation.

1 IDENTIFICATION OF THE MATERIAL

Product Name	GEARTH ScaleGuard (Ready To Use)
Description	Proprietary blend of organic and food-grade acids combined with readily biodegradable anionic and nonionic surfactants.
Product Packaging	5 L, 25 L, 200 L, 1 000 L
Supplier	GEARTH (Pty) Ltd
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EMERGENCY CONTACTS

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2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Phosphoric Acid (Food Grade)
CAS Number	7664-38-2
Content %	< 10%
Risk Phrase	R22 / R36 — Harmful if swallowed; Irritating to eyes.
Safety Phrase	S46 — If swallowed, seek medical advice immediately.
Note	Data are typical of the product and not a specification or full composition. Risk profile may change if mixed with other compounds.

3 HAZARDS IDENTIFICATION

Classification	Flammable: Category 2 Eye Damage/Irritation: Category 2 STOT-SE: Category 3
Signal Word	Warning / Danger
Hazard Statements	H319 — Causes serious eye irritation. H336 — May cause drowsiness or dizziness.
Prevention	P233 — Keep container tightly closed. P261 — Avoid breathing mist, vapours or sprays. P280 — Wear eye/face protection.
Response	P305+P338+P351 — IF IN EYES: remove contact lenses; rinse cautiously with water for several minutes. P337+P313 — If irritation persists: seek medical advice.
Storage	P403+P233+P235 — Store in a well-ventilated place; keep container tightly closed; keep cool.
Disposal	P501 — Dispose contents/packaging to an approved waste disposal plant.
Other Hazards	None.

4 FIRST AID MEASURES

Eyes	Rinse with water for 15 minutes, keeping eyelids open. If discomfort persists beyond 30 minutes, seek medical attention.
Skin	Remove contaminated clothing. Rinse with water and wash with soap. Apply emollient to dry skin if required.
Ingestion	Do not induce vomiting. Keep person calm and seek medical attention.

Inhalation	Move to fresh air. Seek medical attention if symptoms persist.
Note to Physician	Never give anything by mouth or induce vomiting in an unconscious person. Treatment should be directed at symptoms and clinical condition.
5 FIRE FIGHTING MEASURES	
Extinguishing Media	Dry powder, water, or foam agent.
Special Hazards	None known.
6 ACCIDENTAL RELEASE MEASURES	
Small Liquid Spill	Transfer by mechanical means to a labelled, sealable container for recovery or safe disposal. Allow residues to evaporate or absorb with suitable absorbent.
Large Liquid Spill	Transfer by vacuum truck to a salvage tank. Absorb residues; dispose of safely.
Environmental	Do not discharge large volumes into sewers. Clean up using dry sand; discharge in accordance with local regulations.
7 HANDLING AND STORAGE	
Handling	Normal handling precautions apply.
Storage	Cool, well-ventilated storage. Avoid high temperatures. Keep container sealed and labelled. Keep away from naked flame. Avoid contact with alkalis.
8 EXPOSURE CONTROLS / PERSONAL PROTECTION	
Engineering Controls	No specific measures required.
Hand Protection	Wear chemical-resistant gloves.
Eye Protection	Face shield or safety goggles.
Full PPE	Full PPE required for large-scale or high-exposure operations.
9 PHYSICAL AND CHEMICAL PROPERTIES	
Form	Viscous liquid.
Colour	Dark brown.
Odour	Pine.
pH as Supplied	1–2 (strongly acidic).
Boiling Point	> 100°C
Melting Point	Not applicable.
Flash Point	Not applicable.
Auto-Ignition Temp	Not applicable.
Explosion Limits	Not applicable.
Vapour Pressure @ 20°C	Not applicable.
Specific Gravity (SG)	1.05–1.20
Solubility in Water	Yes — fully miscible.
Other Notes	Acidic compound; neutralise with alkali prior to disposal.
10 STABILITY AND REACTIVITY	
Stability	Stable at ambient conditions.
Hazardous Decomposition	None known.
11 TOXICOLOGICAL INFORMATION	

Inhalation	No known or reported effects; may cause shortness of breath.
Skin Contact	Will cause irritation and drying of sensitive skin.
Eye Contact	Discomfort, irritation, redness and pain.
Ingestion	Discomfort and pain with possibility of nausea and vomiting.
Specific Effects	Not known or reported. If ingested or eye contact occurs, consult a doctor.

12 ECOLOGICAL INFORMATION

Biodegradability	Contains readily biodegradable ingredients. Product can be successfully bioremediated.
Bioaccumulation	Not likely.
Eco Toxicity	Not tested.

13 DISPOSAL CONSIDERATIONS

Material Disposal	Recover or recycle if possible. Waste generator is responsible for proper waste classification and disposal in compliance with applicable regulations.
Container Disposal	Drain thoroughly. Vent in a safe place away from sparks and fire. Do not puncture, cut or weld unclean drums. Send to drum recoverer or metal reclaimer.
Local Legislation	Disposal must comply with regional, national and local laws.

14 TRANSPORT INFORMATION

UN Number	Not applicable.
Transport Class	Class 8
Additional Information	May cause a slippery spill in the event of spillage.

15 REGULATORY INFORMATION

EEC Hazard Classification	Irritant (Xi)
Risk Phrases	R36 — Irritating to eyes. R22 — Harmful if swallowed.
Safety Phrases	S3 — Keep in a cool place. S15 — Keep away from heat. S25 — Avoid eye contact.

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.

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