GEARTH

SAFETY DATA SHEET
PureWash Powder

GHS REV 10

1 Identification

Product identifier	PureWash Powder
Other means of identification	No data available
Recommended use	Eco-friendly handwashing / laundry washing powder.
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 assessment: irritant — contact may cause severe irritation and possible burns to eyes and skin; inhalation of dust may cause severe irritation of the upper respiratory tract. Source EC-directive phrases: R22 harmful if swallowed; R34 causes burns; R37 irritating to respiratory system.

2.2 Label elements

Hazard pictograms	No data available
Signal word	No data available
Hazard statements	No data available
Precautionary — prevention	Keep away from food, drink and animal feeding stuffs; avoid contact with skin and eyes; wear suitable protective clothing, gloves and eye / face protection (source S13, S24/25, S36/37/39).
Precautionary — response	In case of accident or if you feel unwell, seek medical advice immediately and show the label where possible (source S45).
Precautionary — storage	No data available
Precautionary — disposal	No data available

2.3 Other hazards

OTHER HAZARDS DISCLOSURE

Alkaline powder: contact with wet or moist skin may cause irritation and possible burns; dust generation may cause severe respiratory irritation; prolonged contact of the metasilicate component with aluminium, tin, lead or zinc may produce flammable hydrogen gas (source data).

3 Composition / information on ingredients

Ingredient	CAS no.	EC no.	Conc. % (w/w)	Classification
Sodium carbonate	497-19-8	No data available	No data available	Irritant (source, pre-GHS)
Sodium metasilicate (pentahydrate / anhydrous)	10213-79-3 / 6834-92-0	No data available	No data available	R22, R34, R37 (source EC phrases)
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	Remove to fresh air. If not breathing, give artificial respiration; if breathing is difficult, give oxygen. Get medical aid.
Skin contact	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before re-use.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.
Ingestion	Do NOT induce vomiting. Get medical aid immediately. If fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects	Severe irritation and possible burns of eyes and skin; severe upper-respiratory irritation with pain, burns and inflammation on inhalation; severe gastrointestinal irritation with nausea, vomiting and possible burns if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Medical attention	Notes to physician: treat symptomatically and supportively.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Substance is non-combustible; use media most appropriate for the surrounding fire.
Unsuitable extinguishing media	No data available

5.2 Special hazards arising from the substance or mixture

Specific hazards / hazardous combustion products	NFPA rating: health 3, flammability 0, instability 0 (source data).

5.3 Advice for firefighters

Protective equipment for firefighters	Self-contained breathing apparatus in pressure-demand (approved or equivalent) and full protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use proper personal protective equipment as indicated in Section 8.
Environmental precautions	No data available
Methods and material for containment and cleaning up	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

7 Handling and storage

7.1 Precautions for safe handling

Safe handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimise dust generation and accumulation. Do not get in eyes, on skin or on clothing. Avoid ingestion and inhalation.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a tightly closed container in a cool, dry, well-ventilated area away from incompatible substances.
Packaging	5 kg, 10 kg and 20 kg.
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
Sodium metasilicate (pentahydrate / anhydrous)	ACGIH / NIOSH / OSHA PEL	None listed (source data)	HCA Regs 2021 Annexure 2

8.2 Appropriate engineering controls

Engineering controls	Facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.3 Individual protection measures

Eye / face protection	Wear protective eyeglasses or chemical safety goggles.
Skin / hand protection	Wear appropriate gloves and protective clothing to prevent skin exposure. Glove material: No data available; breakthrough time: No data available
Respiratory protection	Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Filter type: No data available
Thermal hazards	No data available

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Powder
Colour	White solid
Odour	Fragranced
Melting point / freezing point	No data available
Boiling point or initial boiling point and boiling range	Not available (source data)
Flammability	Non-combustible
Lower and upper explosion limit / flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH (concentration and temperature stated)	5.5 – 6.5 (concentration and temperature not stated in source data)
Kinematic viscosity	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log Kow)	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	Not available (source data)
Particle characteristics	Powder; avoid dust generation

9.2 Other information

Explosive properties	No data available
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	Product is stable.
Possibility of hazardous reactions	Hazardous polymerisation has not been reported.
Conditions to avoid	Dust generation.
Incompatible materials	Acids; fluorine. Flammable hydrogen gas may be produced on prolonged contact with materials such as aluminium, tin, lead and zinc.
Hazardous decomposition products	Toxic fumes of sodium oxide.

11 Toxicological information

Likely routes of exposure	Inhalation of dust; skin and eye contact; ingestion.
Symptoms related to exposure	Severe irritation / burns of eyes and skin; respiratory-tract irritation; gastrointestinal irritation if swallowed.
Delayed and chronic effects	Chronic inhalation may cause effects similar to those of acute inhalation (source data).

Numerical measures of toxicity

Endpoint	Species	Route	Value
LD50 (acute oral)	Mouse / rat	Oral	2200 mg/kg (sodium metasilicate, CAS 10213-79-3; source data)

Numerical value relates to the sodium metasilicate component (CAS 10213-79-3), not the mixture as supplied — read-across from source component data.

Acute toxicity — dermal	No data available
Acute toxicity — inhalation	No data available
Skin corrosion / irritation	Causes irritation and possible burns (source data; not GHS-classified).
Serious eye damage / irritation	May cause severe irritation and possible eye burns (source data; not GHS-classified).
Respiratory sensitisation	No data available
Skin sensitisation	No data available
Germ cell mutagenicity	Not available (source data).
Carcinogenicity	CAS 10213-79-3 not listed by ACGIH, IARC, NTP or CA Prop 65 (source data).
Reproductive toxicity	Not available (source data).
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 no ecological information found.

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

13 Disposal considerations

Waste residues	No data available
Disposal methods	Waste generators must determine whether the discarded product is classified as hazardous waste and dispose of it under applicable waste 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)	No data available	No data available	No data available	No data available
Rail (RID)	Not applicable	Not applicable	Not applicable	Not applicable
Sea (IMDG)	UN3253 (source DOT/TDG data — verify for IMDG)	Disodium trioxosilicate (source DOT/TDG data)	8 (source DOT/TDG data)	III (source DOT/TDG data)
Air (IATA)	No data available	No data available	No data available	No data available

Marine pollutant	No data available
Transport in bulk (IMO instruments)	Not applicable
Special precautions for user	Source transport data is Canadian TDG/DOT (UN3253, class 8, PG III, disodium trioxosilicate); SANS 10228 / ADR / RID / IMDG / IATA assignments to be confirmed.

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 18 June 2025); no data re-tested or re-derived.
Full text of hazard (H) statements	No data available
Full text of precautionary (P) statements	S13 Keep away from food, drink and animal feeding stuffs. S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye / face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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.

SIGN-OFF

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