GEARTH

# SAFETY DATA SHEET
## DrainZyme

GHS REV 10

## 1 Identification

| | |
|---|---|
| Product identifier | DrainZyme |
| Other means of identification | No data available |
| Recommended use | Bio-enzyme drain treatment and drain cleaner. |
| 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: Xi — Irritant (R36/38, irritating to skin and eyes). |

### 2.2 Label elements

| | |
|---|---|
| Hazard pictograms | No data available |
| Signal word | No data available |
| Hazard statements | No data available |
| Precautionary — prevention | Keep out of reach of children; avoid contact with skin and eyes; wear suitable gloves and eye / face protection (source S2, S24/25, S37/39). |
| Precautionary — response | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (source S26). |
| Precautionary — storage | No data available |
| Precautionary — disposal | No data available |

### 2.3 Other hazards

**OTHER HAZARDS DISCLOSURE**

Strongly alkaline liquid (pH 12.5 – 13.2): harmful to eyes; may dry out skin. Do not mix with other chemicals without express agreement (source data).

## 3 Composition / information on ingredients

| Ingredient | CAS no. | EC no. | Conc. % (w/w) | Classification |
|---|---|---|---|---|
| Sodium metasilicate pentahydrate | 10213-79-3 | No data available | >10% | Irritant (source, pre-GHS) |
| Alkylpolyglycoside C8-10 | 68515-73-1 | No data available | <5 | No data available |
| Alkylpolyglycoside C10-16 | 110615-47-9 | No data available | <5 | No data available |
| Viable bacterial cultures | Not applicable | Not applicable | No data available | Not classified (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 | None required (source data). |
| Skin contact | Wash thoroughly with water. |
| Eye contact | Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention. |
| Ingestion | Get medical advice immediately. Give water and do not induce vomiting. |

### 4.2 Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| Symptoms and effects | Harmful to eyes; may dry out skin; ingestion may irritate the throat and cause gastrointestinal disturbances such as irritation, nausea and diarrhoea. |

### 4.3 Indication of any immediate medical attention and special treatment needed

| | |
|---|---|
| Medical attention | Skin contact may aggravate existing skin disease. Treat symptomatically. |

## 5 Fire-fighting measures

### 5.1 Extinguishing media

| | |
|---|---|
| Suitable extinguishing media | Carbon dioxide / dry regular foam. |
| Unsuitable extinguishing media | No data available |

### 5.2 Special hazards arising from the substance or mixture

| | |
|---|---|
| Specific hazards / hazardous combustion products | Not combustible. No hazardous decomposition materials known in fire. |

### 5.3 Advice for firefighters

| | |
|---|---|
| Protective equipment for firefighters | Approved self-contained breathing apparatus and full protective clothing. Dispose of fire-control water later. |

## 6 Accidental release measures

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | Wear appropriate protective gear for the situation (see Section 8). |
| Environmental precautions | The product does not contain alkyl phenol ethoxylates; no endocrine-disruptive effects are linked to this product (source data). |
| Methods and material for containment and cleaning up | Small spills: absorb / adsorb with sand or other suitable material. Large spills: contain with absorbent. |

## 7 Handling and storage

### 7.1 Precautions for safe handling

| | |
|---|---|
| Safe handling | Do not get onto skin or into eyes. |

### 7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Storage conditions | Store in a cool place. |
| Packaging | 5 L and 25 L HD polyethylene containers. |
| 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 | HCA Regs 2021 Annexure 2 |

### 8.2 Appropriate engineering controls

| | |
|---|---|
| Engineering controls | Ventilate, or use self-contained breathing apparatus where ventilation is insufficient. Eye wash fountains and emergency showers should be available. |

### 8.3 Individual protection measures

| | |
|---|---|
| Eye / face protection | Goggles and face shield. |
| Skin / hand protection | Wear a protective apron; gloves recommended. Glove material: No data available; breakthrough time: No data available |
| Respiratory protection | Not applicable per source. 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 | Brown |
| Odour | None |
| Melting point / freezing point | No data available |
| Boiling point or initial boiling point and boiling range | No data available |
| Flammability | Non-flammable |
| 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) | 12.5 – 13.2 (concentration and temperature not stated in source data) |
| Kinematic viscosity | No data available |
| Solubility | Soluble in water in all proportions |
| 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 | No data available |
| Particle characteristics | Not applicable |

### 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 | Stable under normal conditions of use. |
| Possibility of hazardous reactions | No data available |
| Conditions to avoid | High temperatures, flames and sparks. |
| Incompatible materials | May react with strong acids and strong oxidising agents. |
| Hazardous decomposition products | Methanol in water and in processing; $CO_2$ if burned. |

## 11 Toxicological information

| | |
|---|---|
| Likely routes of exposure | Eye and skin contact; ingestion. |
| Symptoms related to exposure | Irritant; harmful to eyes; skin irritant. |
| Delayed and chronic effects | Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness. |

### Numerical measures of toxicity

| Endpoint | Species | Route | Value |
|---|---|---|---|
| No data available | No data available | No data available | No data available |

Source states acute dermal, respiratory and inhalation toxicity values not available.

| | |
|---|---|
| Acute toxicity — dermal | No data available |
| Acute toxicity — inhalation | No data available |
| Skin corrosion / irritation | Skin irritant (source data; not classified). |
| Serious eye damage / irritation | Irritant; harmful to eyes (source data; not classified). |
| Respiratory sensitisation | No data available |
| Skin sensitisation | No data available |
| Germ cell mutagenicity | Nil (source data). |
| Carcinogenicity | Nil (source data). |
| Reproductive toxicity | Nil (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 |
|---|---|---|---|
| Fish | Acute toxicity | Non-toxic* (source statement) | No data available |
| Daphnia | Acute toxicity | Non-toxic* (source statement) | No data available |
| Algae | Acute toxicity | Non-toxic* (source statement) | No data available |

*Source note: the aquatic toxicities refer to final effluent water where the product has been essentially removed through an oil separator and diluted to less than 1/1000 of the supplied concentration.

| | |
|---|---|
| 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 |
| Other adverse effects | No data available |

## 13 Disposal considerations

| | |
|---|---|
| Waste residues | No data available |
| Disposal methods | Refer to the local authority. |
| Contaminated packaging | As for product — refer to the local authority. |
| 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 | Transported as a multi-load. Emergency response group 111 (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 29 March 2018); no data re-tested or re-derived. |
| Full text of hazard (H) statements | No data available |
| Full text of precautionary (P) statements | S2 Keep out of reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 Wear suitable gloves and eye / face protection. |
| 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**

| | |
|---|---|
| Prepared by | GEARTH (Pty) Ltd |
| Document ref | SDS-GEA-006 |
| Revision | 1.0 (18 August 2026) |
| Supersedes | None — first GEARTH issue |
| Next review | August 2028 |