

# SAFETY DATA SHEET

## ELCOSEAL Geosynthetic Clay Liner (GCL)

Infosafe No.: LQ895  
DRAFT Date : 28/11/2024  
DRAFT by: GEOFABRICS AUSTRALASIA PTY LTD

### Section 1 - Identification

**Product Identifier**

ELCOSEAL Geosynthetic Clay Liner (GCL)

**Company Name**

GEOFABRICS AUSTRALASIA PTY LTD

**Address**

83-93 Canterbury Road Braeside  
VIC 3195 AUSTRALIA

**Telephone/Fax Number**

Tel: 03 8586 9144

**Emergency Phone Number**

03 8586 9144

**Recommended use of the chemical and restrictions on use**

ELCOSEAL Geosynthetic Clay Liners (GCLs) are used as an easy to install lining system in landfills and waste containment structures and for liquid containment in effluent ponds and tailings dams. ELCOSEAL GCLs are also effective liners for dams, ponds, lakes, wetlands, irrigation canals and channels.

**Additional Information**

Geofabrics New Zealand Ltd  
14 Goodman Place, Penrose, Auckland 1061  
New Zealand  
NZ Customer Service Number: 0011 64 9 634 6495  
NZ Emergency contact number: 0011 64 9 634 6495 (available from 7.30am to 5.00pm)

### Section 2 - Hazard(s) Identification

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Classified as Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

Carcinogenicity: Category 1A

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H350 May cause cancer by inhalation.

**Pictogram (s)**

Health hazard

**Precautionary Statement–Prevention**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Precautionary Statement–Response**

P308+P313 IF exposed or concerned: Get medical advice/attention.

**Precautionary Statement–Storage**

P405 Store locked up.

**Precautionary Statement–Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

### Section 3 - Composition and Information on Ingredients

**Ingredients**

| Name   | CAS        | Proportion |
|--|------------|------------|
| Quartz (SiO <sub>2</sub> ) (respirable fraction) | 14808-60-7 | <1 %       |
| Ingredients determined not to be hazardous       |            | Balance    |

### Section 4 - First Aid Measures

**Inhalation**

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

**First Aid Facilities**

Eyewash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

### Section 5 - Firefighting Measures

**Suitable Extinguishing Media**

Use extinguishing media that are suitable for the surrounding combustible materials.

**Hazards from Combustion Products**

Non combustible material.

### Specific hazards arising from the chemical

This product is non combustible. However heating can cause expansion or decomposition. The packaging may burn under fire conditions.

### Decomposition Temperature

Not available

### Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed product.

## Section 6 - Accidental Release Measures

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### Emergency Procedures

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## Section 7 - Handling and Storage

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### Precautions for Safe Handling

Use only in a well ventilated area. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Ensure at all times the product is labelled as HAZARDOUS and that locations in which the product is stored has appropriate reference to the presence of HAZARDOUS material. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## Section 8 - Exposure Controls and Personal Protection

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### Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Crystalline Silica (quartz) (Australia)

TWA: 0.05 mg/m<sup>3</sup>

Crystalline Silica (quartz) (New Zealand)

TWA: 0.025 mg/m<sup>3</sup> (respirable)

Notices: Carc.1A

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

'Carc.1A' Notice: Known to have carcinogenic potential for humans.

Source: Safe Work Australia and Workplace Exposure Standards and Biological Exposure Indices, New Zealand.

### Biological Monitoring

No biological limits allocated.

### Control Banding

Not available

### Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye and Face Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337(series) - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### Thermal Hazards

No further relevant information available.

### Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## Section 9 - Physical and Chemical Properties

| Properties                | Description           | Properties   | Description  |
|---------------------------|-----------------------|--|--|
| Form                      | Powder                | Appearance   | Light pink, off white impalpable powder or granules                                  |
| Colour                    | Light pink, off white | Odour  | No distinct odour  |
| Melting Point             | Not available         | Boiling Point                                      | Not applicable   |
| Decomposition Temperature | Not available         | Solubility in Water                                | Insoluble. Forms colloidal suspensions in water, with strong thixotropic properties. |
| Specific Gravity          | 3.30                  | pH   | 7-9 (20% aqueous slurry)   |
| Vapour Pressure           | Not applicable        | Relative Vapour Density (Air=1)                    | Not applicable   |
| Evaporation Rate          | Not available         | Odour Threshold                                    | Not available  |
| Viscosity                 | Not available         | Partition Coefficient: n-octanol/water (log value) | Not available  |
| Flash Point               | Not applicable        | Flammability                                       | Non-combustible  |
| Auto-Ignition Temperature | Not applicable        | Explosion Limit - Upper                            | Not applicable   |
| Explosion Limit - Lower   | Not applicable        | Particle Size                                      | Not available  |
| Particle Characteristics  | Not available         |  |  |

## Section 10 - Stability and Reactivity

### Reactivity

Not available

### Chemical Stability

Stable under normal conditions of storage and handling.

### Possibility of hazardous reactions

Not available

**Conditions to Avoid**

Extremes of temperature, dust accumulation.

**Incompatible Materials**

Not available

**Hazardous Decomposition Products**

Not available

**Hazardous Polymerization**

Will not occur.

## Section 11 - Toxicological Information

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**Toxicology Information**

No toxicity data available for this product.

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of dusts may irritate the respiratory system. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

Repeated exposure to respirable crystalline silica dust may lead to silicosis, or other serious delayed lung injury. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma. Exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma.

**Skin**

Skin contact may cause mechanical irritation resulting in redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

Eye contact may cause mechanical irritation. May result in mild abrasion.

**Respiratory Sensitisation**

Not expected to be a respiratory sensitizer.

**Skin Sensitisation**

Not expected to be a skin sensitizer.

**Germ Cell Mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

May cause cancer by inhalation.

Respirable crystalline silica (quartz) is classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT - Single Exposure**

Not expected to cause toxicity to a specific target organ.

**STOT - Repeated Exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

## Section 12 - Ecological Information

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**Ecotoxicity**

No ecological data are available for this material.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

**Hazardous to the Ozone Layer**

This product is not expected to deplete the ozone layer.

## Section 13 - Disposal Considerations

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**Disposal Considerations**

Australia:

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure to the chemical, refer to Section 8—Exposure controls and personal protection.

New Zealand:

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. The product should be rendered non-hazardous before being sent to a licensed landfill facility.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose directly into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Notice (2017). Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

## Section 14 - Transport Information

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**Transport Information**

Australia

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

New Zealand

Road and Rail Transport:

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):  
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**UN Number**  
None Allocated

**Proper Shipping Name**  
None Allocated

**Transport Hazard Class**  
None Allocated

**Special Precautions for User**  
Not available

**IMDG Marine pollutant**  
No

**Transport in Bulk**  
Not available

**Section 15 - Regulatory Information**

**Regulatory Information**  
Australia:  
Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.  
Not Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand:  
Classified as Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020, New Zealand.  
Group Standard: Additives, Process Chemicals and Raw Materials (Carcinogenic) Group Standard 2020.

**Poisons Schedule**  
Not Scheduled

**HSNO Approval Number**  
HSR002512

**Montreal Protocol**  
Not listed

**Stockholm Convention**  
Not listed

**Rotterdam Convention**  
Not listed

**International Convention for the Prevention of Pollution from Ships (MARPOL)**  
Not available

**Agricultural and Veterinary Chemicals Act 1994**  
Not available

**Basel Convention**  
Not available

**Global Inventory Status**

| Country/Region Inventory | Status Description  | Country/Region Inventory | Status Description |
|--------------------------|---|--------------------------|--------------------|
| Australia (AICS/AIIC)    | All components of this product are listed on the Inventory or exempted. |                          |                    |

## Section 16 - Any Other Relevant Information

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### Date of Preparation

SDS Reviewed: November 2024 Supersedes: August 2022

### Version Number

3.0

### Literature References

#### Australia

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

#### New Zealand

Hazardous Substances and New Organisms Act (1996).

Health and Safety at Work (Hazardous Substances) Regulations (2017).

Workplace Exposure Standards and Biological Exposure Indices.

Agricultural Compounds and Veterinary Medicines Act 1997.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

## END OF SDS

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