Material Safety Data Sheet

SEALSUM SCREED

Revision 2

SEALSUM

Issue Date: **27/06/2025** Revision Date: **27/07/2025**

SECTION 1 Chemical Product and Company Identification

Product Identification

Product name	SEALSUM SCREED
Use of Product	Cement based flooring screed

Company Identification

Registered company name	SEALSUM
Address	11/23 Enterprise Avenue, Tweed Heads South NSW2486
Department	Technical Research Institute
Website	www.sealsum.com.au

Emergency telephone number

For Australia	1300 99 58 79 AUSTRALIAN POISONS INFORMATION CENTRE: 13 11 26 (24 HOUR SERVICE), 000 (POLICE OR FIRE BRIGADE)

SECTION 2 Hazards Identification

A. Hazards, Risks Classification of Substance

Skin Corrosion / Irritation	Classification 2
Serious Eye Damage	Classification 1
Specific Target Organ Toxicity (1 Exposure)	Classification 3
Aspiration Hazard	Classification 1

B. Warning Sign Elements including Precaution Phrases

▶ **Pictograph:**

▶ **Signal word: Danger**

▶ **Hazard and risk statements:**

H304 May be fatal if swallowed and enters airways

H314 Causes serious skin burns and eye damage

H318 Causes serious eye damage

H335 May cause respiratory tract irritation

▶ **Precautionary statement(s) Prevention**

P260 Do not inhale dust, fume, gas, mist, steam, and spray

P261 Avoid inhaling dust, fume, gas, mist, steam, and spray

P264 Wash affected areas thoroughly after handling

P271 Handle only in the open air or in a well-ventilated place

▶ **Precautionary statement(s) Response**

P301+P310 If you swallow, seek immediate medical attention

P303+P361+P353 If it comes into contact with your skin (or hair), remove contaminated clothing. Wash skin thoroughly with water. Take a shower

P304+P340 If you inhale, go to a place with fresh air immediately and relax in a position to breathe easily

P305+P351+P338 If it comes into contact with your eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and continue rinsing

P310 Seek immediate medical attention

P312 If you feel unwell, seek medical attention

P321 In case of mild skin contact, clean affected area and seek first aid

P331 Do not induce vomiting

P363 Clean polluted clothes before using again

▶ **Precautionary statement(s) Storage**

P403+P233 Container must be sealed and stored in a well-ventilated place

P405 Store in a storage site with a locking system

▶ **Precautionary statement(s) Disposal**

P501: Discard the content container (in accordance with the relevant regulations)

C. Other hazards and risks not included in the criteria for classification of hazards and risks.

(HMIS Hazard Rating)	Portland Cement	Dolomite
Health	2	1
Flammability	0	0
Reactivity	0	0

SECTION 3 Composition Name and Content

Chemical name	CAS No.	Content (%)
Portland Cement (Hydraulic Cement)	65997 – 15 – 1	25 ~ 30
Dolomite (Dolocron)	16389 – 88 – 1	70 ~ 75

SECTION 4 First Aid Measures

A. When it gets into your eyes:

- ▶ **Get emergency medical attention.**
- ▶ **If in contact with the substance, remove contact lenses if applicable and flush eyes with water for at least 20 minutes.**

B. When it comes into contact with your skin:

- ▶ **If you feel unwell, seek medical attention.**
- ▶ **Remove contaminated clothing and shoes and isolate the affected person.**
- ▶ **Wash affected skin area with plenty of water for at least 20 minutes.**

C. When inhaled:

- ▶ **Get medical attention immediately.**
- ▶ **If breathing is difficult, move the person to fresh air.**
- ▶ **If necessary, use artificial respiration to support vital functions.**
- ▶ **Seek medical attention if breathing difficulty continues.**
- ▶ **If not breathing, give artificial respiration. Consult a physician.**

D. When eaten:

- ▶ **Rinse your mouth with water immediately. Do not induce vomiting.**
- ▶ **Get medical attention immediately.**
- ▶ **Consult a physician before inducing vomiting.**
- ▶ **Never give anything by mouth to an unconscious person. Consult a physician.**

E. Other doctor's notes

- ▶ **Notify medical personnel of contaminated situations and have them take appropriate protective measures.**
- ▶ **If exposed or concerned, get medical attention/ advice.**

SECTION 5 Countermeasures against Explosion and Fire

A. Appropriate (Inappropriate) fire extinguishing agents:

- ▶ **For extinguishing the fire related to this substance, use alcohol foam, carbon dioxide or water spray.**
- ▶ **For extinguishing by smothering, use dry sand or soil.**

B. Specific hazards arising from the chemical:

- ▶ **While burning, pungent and very noxious gas may be caused by pyrolysis or combustion.**
- ▶ **If heated, the container may explode.**
- ▶ **Portions may burn, but the material does not ignite easily.**
- ▶ **Nonflammable. Although the substance is not burnt itself, it may degrade and cause corrosive/toxic fume, if heated.**

C. Protective equipment to be worn and prevention measures in case of fire extinguishing:

- ▶ **Rescuer must wear proper protective apparatus.**
- ▶ **Get out of the area and extinguish, keeping a safety distance.**
- ▶ **Use caution, as the material may deform during transport.**
- ▶ **Dig a trench and collect firefighting runoff to prevent environmental contamination.**
- ▶ **If not dangerous, move the container from the fire area.**
- ▶ **In case of tank fire, extinguish at a maximum distance or use unmanned fire-fighting equipment**
- ▶ **In case of tank fire, cool the container with a large amount of water even after the fire is put out.**
- ▶ **In case of tank fire, step back immediately when high-pitched sound is generated from the pressure relief system or the tank is discolored.**

- ▶ **In case of tank fire, step back from the tank wrapped in flames.**
- ▶ **In case of large-scale tank fire, use unmanned fire-fighting apparatus and if it is impossible to extinguish, evacuate the area and allow the fire to burn under supervision.**

SECTION 6 Measures against Accidental Release

A. Measures and protective equipment to protect the human body:

- ▶ **Wipe the spilled matter immediately and follow the precautions as per the protective equipment section.**
- ▶ **Remove all the ignition sources.**
- ▶ **If not dangerous, stop leakage.**
- ▶ **Do not touch the broken container or the substance leaked without wearing proper protective clothes.**
- ▶ **Cover with a plastic sheet to prevent spread.**
- ▶ **Be careful about the substances and conditions to avoid.**
- ▶ **Avoid inhaling dust, fumes, gas, mist, steam, and spray.**

B. Measures required to protect the environment:

- ▶ **Prevent runoff and contact with waterways, drains or sewers.**
- ▶ **If large amounts have been spilled, inform the relevant authorities.**

C. Cleaning up or removing methods:

- ▶ **Use inert materials (like dry sand or soil) to absorb the spilled matter and put it into a chemical waste container.**
- ▶ **Absorb the liquid and clean the polluted area with detergent and water.**

SECTION 7 Handling and Storage

Safe handling method:	▶ Since residue may be left even after emptying the container, follow all the MSDS/Label precautionary measures. ▶ Be careful when handling/storing. ▶ Open the cap carefully. ▶ Prevent long-term or continued skin contact. ▶ Be careful about the substances and conditions to avoid. ▶ Be aware of engineering management and wear personal protective apparatus while working. ▶ Avoid inhaling dust, fume, gas, mist, steam, and spray. ▶ Wash affected areas thoroughly after handling. ▶ Handle only in the open air or in a well-ventilated place.
Safe storage method	▶ After draining an empty drum completely and sealing properly, take it back to the drum controller immediately or place properly. ▶ Seal the container tightly and store in a well-ventilated place.

SECTION 8 Exposure Prevention and Personal Protective Equipment

A. Exposure standards of chemical substances, biological exposure standards and etc.:

	Industrial	ACGIH Regulations	Biological Exposure Standards
Portland Cement	TWA - 10mg/㎥	Inhalable, TWA 1mg/㎥, STEL 5mg/㎥	No Data
Dolomite	No Data	No Data	No Data

B. Appropriate engineering control:

- ▶ **Use process isolation and local ventilation or try other engineering management to adjust the air level less than the exposure standard.**
- ▶ **If dust, fume or mist occurs during operation, ventilate to keep air pollution below the exposure standard.**
- ▶ **The facility storing or using this substance must be equipped with washing facility and safety shower.**

C. Personal protective equipment:

- ▶ **Respiratory protection**

Wear respiratory protective apparatus suiting physiochemical properties of the particulate matter exposed, certified by the Occupational Safety and Health Agency.

If the exposure concentration is lower than 100 mg/m³, wear half mask-type respiratory protective apparatus with a proper type of filter.

If the exposure concentration is lower than 250 mg/m³, wear loose-fitting hood/helmet-type motor respiratory protective apparatus or a continuous flow-type dust mask with a proper type of filter.

If the exposure concentration is lower than 500 mg/m³, wear full face mask-type or motor half mask-type or air supplied continuous flow-type/pressure demand-type half mask respiratory protective apparatus with a proper type of filter.

If the exposure concentration is lower than 10000 mg/m³, wear a full-face mask-type or helmet/hood-type pressure demand air supplied mask with a proper type of filter.

If the exposure concentration is lower than 10000 mg/m³, wear Self-Contained Breathing Apparatus (SCBA) or pressure demand-type (SCBA) respiratory protective apparatus with a proper type of filter.

- ▶ **Eye protection**

Wear safety goggles to protect your eyes from particulate matter that may irritate your eyes or cause other health problems.

Install emergency washing facilities (shower type) and washing facilities in a location that is easily accessible to workers.

- **Hand protection**

Wear protective gloves of appropriate materials considering the physical and chemical characteristics of the chemical.

- **Skin protection**

Wear protective clothing of appropriate materials considering the physical and chemical properties of the chemical.

SECTION 9 Physical and Chemical Properties

A. Appearance: Grey Powder	K. Vapor pressure: No Data
B. Odor: Odorless	L. Solubility: No Data
C. Odor threshold: No Data	M. Vapor density: No data
D. pH: 12 (wet cement)	N. Specific gravity: No Data
E. Melting point / Freezing point: > 1000 °C	O. N-octanol/water partition coefficient: No Data
F. Boiling point / Boiling point range: No Data	P. Autoignition temperature: No Data
G. Flash point: (nonflammable)	Q. Decomposition temperature: No Data
H. Evaporation rate: No Data	R. Viscosity: No Data
I. Flammability (solid, gas): No Data	S. Molecular weight: No Data
J. Upper/Lower limit of flammability or explosive: No Data	

SECTION 10 Stability and Reactivity

A. Chemical stability and potential for hazardous reactions

- **Containers may explode when heated.**
- **Some can burn but do not ignite easily.**
- **The material itself is non-flammable but may decompose when heated, releasing corrosive or toxic fumes.**
- **May produce irritant, corrosive and toxic gases in case of fire.**

B. Condition(s) to avoid

- **ignition source such as heat, spark, flame, etc.**

C. Substances to Avoid

- **combustible material, reducible materials.**

D. Hazardous substance(s) produced during decomposition

- **Irritating and highly toxic gases may be caused by pyrolysis or combustion during burning.**
- **corrosive/toxic fume**

SECTION 11 Toxicological Information

A. Information about the highly possible exposure routes

- **Symptoms may include respiratory distress, coughing, and lung irritation.**
- **Skin irritation (in severe cases).**
- **Eye irritation, visual impairment, eye damage.**

B. Information on health hazard

Acute toxicity	No data
Oral	No data
Dermal	No data
Inhalation	No data
Skin corrosion or irritation	No data
Severe eye damage or irritation	No data
Respiratory oversensitivity	No data
Skin oversensitivity	No data
Carcinogenicity	No data
Occupational Safety and Health Act	No data
Notification of the Ministry of Employment and Labor	No data
IARC	No data
OSHA	No data
ACGIH	No data
NTP	No data
EU CLP	No data
Germ cell mutagenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data

Specific target organ toxicity (repeated exposure)	No data
Aspiration Hazard (Portland cement)	SERIES - In a series of 6 patients evaluated after swallowing cement, 1 adult developed bronchopneumonia and a child developed aspiration pneumonitis (Visvanathan, 1986). (Tomeson; Medical Management)

SECTION 12 Environmental Impact

Ecotoxicity	No data
Fishes	No data
Crustaceans	No data
Birds	No data
Persistence and Degradability	No data
Persistence	No data
Degradability	No data
Bioaccumulation	No data
Accumulation	No data
Biodegradability	No data
Soil mobility	No data
Other harmful impact	After curing with moisture, the cement does not present an ecological hazard

SECTION 13 Disposal Consideration

A. Disposal Method
- **Dispose of the contents and containers in accordance with the provisions of the Waste Control Act.**

B. Cautions for Disposal
- **Discard the contents and container in accordance with relevant regulations.**

SECTION 14 Information Required for Transportation

A. UN No
- **No Classification Information of UN Transport Hazard Substances.**

B. Proper Shipping Name
- **Not applicable**

C. Risk Grade for Transport
- **Not applicable**

D. Container Grade
- **Not applicable**

E. Marine Pollutants
- **Not applicable**

F. Special Safety Measures that user needs to be aware of, or are necessary in relation to transport or transport means
- **Emergency Action for Fire: Not applicable**
- **Emergency Action for Leakage: Not applicable**

US DOT Hazard Class ..... NONREGULATED

SECTION 15 Legal Regulations Status

A. Regulation by Occupational Safety & Health Act
- **Dolomite : No Data**
- **Portland cement : Exposure standard setting material**
- **Methyl cellulose : No Data**

B. Regulation by Chemicals Control Act
- **No Data**

C. Regulation by Safety Control of Dangerous Substances Act
- **No Data**

D. Regulation by Wastes Control Act
- **No Data**

E. Regulation by Other Domestic and Foreign Authorities
- **Domestic Regulation**

Persistent Organic Pollutants Control Act	**Not Applicable**

- **Foreign Regulation**

Management Information for the U.S.A. (OSHA Regulation)	**Not Applicable**
Management Information for the U.S.A. (CERCLA Regulation)	**Not Applicable**
Management Information for the U.S.A. (EPCRA 302 Regulation)	**Not Applicable**
Management Information for the U.S.A. (EPCRA 304 Regulation)	**Not Applicable**
Management Information for the U.S.A. (EPCRA 313 Regulation)	**Not Applicable**
Management Information for the U.S.A. (Rotterdam Convention Materials)	**Not Applicable**
Management Information for the U.S.A. (Stockholm Convention Materials)	**Not Applicable**
Management Information for the U.S.A. (Montreal Protocol Materials)	**Not Applicable**
EU Classification Information (Determined Classification Result)	**Not Applicable**
EU Classification Information (Hazard Message)	**Not Applicable**
EU Classification Information (Safety Message)	**Not Applicable**

SECTION 16 Other References

A. Sources of Data

- **Dolomite**
  EU IUCLID (Skin Corrosivity or skin irritability)
  EU IUCLID (Serious Eye Damage or irritability)
  IUCLID (Skin Hypersensitiveness)
- **Portland Cement**
  Visvanathan, 1986).(Tomeson; Medical Management) (Aspiration Hazard)
  IUCLID (Biodegradability)
  IUCLID (Other Harmful Effects)

B. Regulation by Wastes Control Act

- **No Data**

C. Date of the initial preparation: 27/06/2025

D. Number of revisions and the date of the last revision

- **Number of revisions: 2**
- **Date of the last revision: 27/07/2025**

E. Others

- **This Material Safety Data Sheet (MSDS) is faithfully written to the best of our current knowledge and information. The information provided is intended as a guideline for safe handling, storage, transportation and disposal and does not constitute a guarantee of product quality.**
- **This information relates only to the specific substances specified and is not valid for substances used in mixtures with other substances not specifically identified herein.**
- **Since this data cannot satisfy all situations that may occur during use, additional care may be required in handling.**
- **All health and safety information specified in this document must be provided to operators and customers.**
- **This Material Safety Data Sheet was edited and partially modified, based on the MSDS, provided by Occupational Safety and Health Agency**