

MSDS- VOGA SEAL-C100

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGA SEAL-C100**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGA SEAL-C100

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals Recommended use: for industrial and professional users



Details of the supplier of the safety data sheet

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1. Product identifier**Product name **VOGA SEAL-C100****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **CEMENTITIOUS CRYSTALLINE ADMIXTURE****3. Details of the supplier of the safety data sheet**Supplier

Company name : Vogel co.

E-mail address: info@vogel-systems.de**2. COMPOSITION/INFORMATION ON INGREDIENTS****GHS Classification:**

Skin Irritation – Category 2

Eye Irritation – Category 2A

STOT SE (Respiratory irritation) – Category 3

Signal Word: ☐ ☐ **Warning****Pictogram:****Hazard Statements:**

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements:

P261: Avoid breathing dust

P280: Wear protective gloves and eye protection

P302+P352: IF ON SKIN: Wash with plenty of water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing

3. COMPOSITION

Component	CAS No.	% w/w	Classification
Portland Cement	1-15-65997	%60–40	Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3
Silica Sand (Quartz)	7-60-14808	%50–30	Not classified (non-respirable)
Proprietary active compounds	Confidential	%10–1	Not classified
Calcium hydroxide (trace)	0-62-1305	%1>	Skin Corr. 1B, Eye Dam. 1

4. FIRST AID MEASURES**Inhalation**

- Remove the affected person to fresh air and keep them at rest in a comfortable position.
- If breathing difficulty or irritation persists, seek medical attention.

Skin Contact

- Brush off excess dry material.
- Wash thoroughly with soap and plenty of water for at least 15 minutes.
- Remove contaminated clothing and wash before reuse.
- If skin irritation or rash occurs, consult a physician.

Eye Contact

- Rinse immediately with clean, gently flowing water for at least 15 minutes, holding eyelids open.
- Remove contact lenses if present and easy to do, then continue rinsing.
- Seek prompt medical attention—product may cause corneal damage if not rinsed quickly.

Ingestion

- Rinse mouth with water.
- Do **not** induce vomiting.
- If conscious, give small amounts of water.
- Seek medical attention if discomfort occurs.

Notes to Physician

- Treat symptomatically.
- This product is highly alkaline when mixed with water and may cause delayed irritation or burns.
- Consider irrigation or ophthalmologic consultation for eye exposure.

5. FIRE FIGHTING MEASURES**Suitable Extinguishing Media**

- The product itself is non-flammable.
- Use extinguishing media suitable for surrounding materials, such as:
 - Water spray or fog
 - Dry chemical powder
 - Carbon dioxide (CO₂)
 - Alcohol-resistant foam

Unsuitable Extinguishing Media

- None known for the product itself.

Specific Hazards Arising from the Chemical

- The dry powder will not burn or support combustion.
- If packaging is involved in a fire, it may emit:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Irritating smoke or fumes

Firefighter Protective Equipment and Precautions

- Wear full protective gear and self-contained breathing apparatus (SCBA).
- Use water spray to cool containers exposed to flames.
- Prevent runoff from entering drains or water bodies.

Additional Information

- Hardened material does not support combustion.
- Firefighting runoff should be contained and disposed of according to local regulations.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

- Avoid breathing dust; ventilate the area.
- Wear appropriate personal protective equipment (see Section 8):
 - Dust mask or respirator (P2/P3)
 - Safety goggles
 - Nitrile gloves
 - Protective clothing

Environmental Precautions

- Do not allow product to enter drains, sewers, or surface water.
- Prevent runoff by diking or containment if spill is large.

Methods and Materials for Containment and Cleaning Up

- **Dry Spills:**
 - Sweep or shovel spilled material into containers for reuse or disposal.
 - Minimize dust generation during cleanup.
 - Use industrial vacuum with HEPA filter for fine dust.
- **Slurry or Wet Material:**
 - Scoop into appropriate containers and allow to fully cure before disposal.
 - Avoid washing into drainage systems before neutralization.
- **Final Cleanup:**
 - Rinse affected area with water and mild detergent if necessary.
 - Collect rinse water and adjust pH to 6–9 before disposal.

Reference to Other Sections

- See Section 8 for personal protective equipment.
- See Section 13 for disposal information.

7. HANDLING AND STORAGE**Handling**

- Avoid generating or inhaling dust during mixing or transfer.
- Use only in well-ventilated areas or with suitable local exhaust ventilation.
- Wear personal protective equipment (PPE) including gloves, goggles, and a dust mask when handling.
- Avoid contact with skin, eyes, and clothing.
- Do not eat, drink, or smoke while handling the product.
- Wash hands thoroughly after handling.
- Clean up spills immediately to prevent slippery surfaces.

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Storage

- Store in a **dry, cool, and well-ventilated** area between **5°C and 35°C**.
- Keep containers tightly closed and protected from moisture and humidity to prevent premature reaction or hardening.
- Store away from acids, oxidizers, ammonium salts, and incompatible materials.
- Do not store near food or beverages.
- Keep out of reach of children.

Shelf Life

- **12 months** from the date of manufacture if stored properly in original, unopened packaging.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	TWA (8h)	Source
Portland Cement	10 mg/m ³ (inhalable)	OSHA PEL
Respirable Crystalline Silica (Quartz)	0.05 mg/m ³ (respirable)	OSHA/NIOSH

- **Engineering controls:** Local exhaust ventilation
- **Respiratory:** Organic-vapour/particulate respirator if limits exceeded
- **Eye:** Splash-resistant goggles
- **Skin:** Nitrile or neoprene gloves; full protective clothing
- **Hygiene:** Wash hands before breaks and after work

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Fine grey powder
Odour	Odourless
Odour threshold	Not applicable
pH (wet slurry)	11–13 (strongly alkaline)
Melting point / Freezing point	>1200 °C (for mineral components)
Boiling point / range	Not applicable
Flash point	Not applicable (non-flammable)
Evaporation rate	Not applicable
Flammability (solid/gas)	Non-flammable
Upper/lower flammability limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Relative density (bulk)	1.2 – 1.4 g/cm ³
Solubility in water	Slight (reacts with water to form crystalline structures)
VOC content	0 g/L (compliant with low-VOC regulations)

10. STABILITY AND REACTIVITY**Reactivity**

- Reacts with water to form a hardened, crystalline matrix.
- Alkaline when mixed; may react with acids to release heat and form calcium salts.

Chemical Stability

- Stable under normal conditions when stored dry and cool.
- Product may slowly set if exposed to moisture or high humidity.

Possibility of Hazardous Reactions

- No hazardous polymerization expected.
- Reacts exothermically with water and acids.
- Can slowly corrode reactive metals (e.g., aluminum, zinc) in moist conditions.

Conditions to Avoid

- Moisture or water exposure during storage
- High humidity
- Contact with strong acids or incompatible substances

Incompatible Materials

- Strong acids
- Ammonium salts
- Reactive metals (e.g., aluminum, zinc)
- Organic peroxides and oxidizers

Hazardous Decomposition Products

- None under normal conditions.
- In case of fire involving packaging or additives:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Irritating mineral dust or fumes

Note: Once cured inside concrete, the admixture is chemically inert and stable.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Oral (rat): LD₅₀ > 5,000 mg/kg (low toxicity)

Dermal (rabbit): LD₅₀ > 5,000 mg/kg (low toxicity)

Inhalation (dust): LC₅₀ > 5 mg/L (4 h, estimated)

Skin Corrosion/Irritation

Category 2: Causes skin irritation due to alkaline components (e.g., cement, calcium hydroxide)

May cause redness, drying, or burns on prolonged contact, especially when wet.

Serious Eye Damage/Irritation

Category 2A: Causes serious eye irritation. Risk of corneal damage if not rinsed promptly.

May cause eye pain, tearing, and blurred vision.

to cement dust may increase the risk of irritation or allergic contact dermatitis in sensitive individuals.

Germ Cell Mutagenicity

Not classified: No mutagenic effects observed in available data.

Carcinogenicity

Not classified:

Product contains <1% respirable crystalline silica—below OSHA/IARC threshold for carcinogenicity.

Not listed as a carcinogen by NTP, IARC, or OSHA at this concentration.

Reproductive Toxicity

Not classified: No known effects on fertility or fetal development.

STOT – Single Exposure (SE)

Category 3: May cause respiratory tract irritation if dust is inhaled in significant quantities.

Aspiration Hazard

Not applicable: Product is a solid powder and not expected to pose an aspiration risk.

Note: Prolonged or repeated contact with wet slurry may lead to cement burns. Appropriate PPE and hygiene practices are essential during handling.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Aquatic toxicity: Not expected to be acutely toxic to aquatic life under normal use conditions.

Fish (96 h LC₅₀): >100 mg/L (estimated)

Daphnia (48 h EC₅₀): >100 mg/L

Environmental effect: High pH of slurry may cause localized harm to aquatic organisms if discharged in large quantities.

Persistence and Degradability

Product is inorganic and not biodegradable.

Reacts with moisture and CO₂ in the environment to form stable, insoluble crystalline structures in concrete.

Bioaccumulative Potential

Not bioaccumulative (Log K_{ow} <1 for all components).

Does not accumulate in aquatic or terrestrial organisms.

Mobility in Soil

As a powder, it may be mobile if not contained.

Once incorporated into concrete, becomes immobile and chemically bound.

Slurry may temporarily migrate but will eventually harden or precipitate.

Other Adverse Effects

pH hazard: Alkaline runoff (pH >11) may affect aquatic ecosystems—neutralize before discharge.

Not classified as PBT (Persistent, Bioaccumulative, Toxic) or vPvB under REACH.

Environmental Note: Avoid uncontrolled release into surface waters or soil. Allow slurry to set or neutralize prior to disposal.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Unused Dry Product:**

Collect spillage into suitable containers.

Dispose of as **non-hazardous construction waste** in accordance with local regulations.

Avoid generating dust during handling.

Wet or Mixed Material (Slurry):

Allow the slurry to fully harden into solid form.

Once cured, dispose of as **inert construction and demolition waste**.

Do not pour uncured material into drains, sewers, or natural water systems.

Contaminated Packaging:

Empty bags or containers may contain residual dust.

Rinse thoroughly if permitted, then recycle or dispose of as **non-hazardous waste**.

Do not reuse packaging for food, water, or personal use.

Cleaning and Wash Water:

Collect any rinse water used for cleaning tools or surfaces.

Adjust **pH to 6–9** before discharge to sewer systems (if permitted).

If pH cannot be neutralized, dispose of as **industrial wastewater** in accordance with national guidelines.

Regulatory Compliance:

Follow **Egypt Environmental Law No. 4/1994** and local waste handling legislation.

Industrial-scale users should work with licensed waste contractors and retain disposal documentation.

Note: Do not dispose of large quantities of the active powder or slurry in uncontrolled environments. Always minimize waste through proper use and mixing control.

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14. TRANSPORT INFORMATION

Mode	UN No.	Shipping Name	Class	Packing Group
All modes	—	Not classified as dangerous	—	—

- Not regulated as a dangerous good under ADR, IMDG, or IATA.

15. Regulatory Information**GHS Classification (Egypt / EU)****Hazard Classes:**

Skin Irritation – Category 2

Eye Irritation – Category 2A

STOT SE (Respiratory Irritation) – Category 3

Signal Word: Warning**Pictogram:****Hazard Statements:**

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

European Union (REACH/CLP)

All components are either registered under REACH or exempt.

Product classified and labelled according to Regulation (EC) No 1272/2008 (CLP).

United States (OSHA / TSCA / SARA)**TSCA:** All ingredients are listed or exempt.**OSHA HCS (29 CFR 1910.1200):** Product is considered hazardous.**Egyptian Regulation****Environmental Law No. 4/1994 (and amendments):**

Requires proper classification, labelling, and waste handling for chemical substances.

Compliance with national disposal and emissions standards is mandatory.

GHS Implementation: Egypt aligns with GHS Rev. 6 standards for classification and labelling.**Other International Inventories****Canada (DSL/NDSL):** All components listed.**Australia (AICS):** All components listed.**16. OTHER INFORMATION**

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