

MSDS- **VogaGrout F**

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Version: 1.0

Product: **MSDS- VogaGrout F**

Date of print 20.09.2022

1. Identification

Product identifier

VogaGrout F

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 **VogaGrout F**

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

Identified uses : General purpose non-shrink cementitious grout

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

Specific Target Organ Toxicity, Single Exposure (respiratory irritation) – Category 3

Signal word: Warning

Pictograms:

Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statements:

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

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; remove lenses if easy and continue rinsing.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

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3. COMPOSITION

Component	CAS No.	Concentration (% w/w)	Classification
Portland cement	1-15-65997	60–40	Skin Irrit. 2; Eye Irrit. 2A
Silica sand	9-86-7631	30–20	Not classified
Calcium sulfoaluminate (shrinkage compensator)	8-35-12068	10–5	Not classified
Polymer modifier (redispersible polymer powder)	—	7–3	Not classified
Cellulosic thickener	0-62-9004	3–1	Not classified
Additives (retarders, flow enhancers)	Confidential	5 ≥	Not classified

4. FIRST AID MEASURES**Inhalation**

- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- If irritation (e.g., coughing, throat discomfort) persists, seek medical attention.

Skin Contact

- Brush off any dry material.
- Wash affected skin thoroughly with plenty of water and mild soap for at least 15 minutes.
- Remove and wash contaminated clothing before reuse.
- If redness, itching or rash occurs, obtain medical advice.

Eye Contact

- Rinse cautiously 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 ophthalmological evaluation if irritation persists.

Ingestion

- Rinse mouth with water.
- Do **not** induce vomiting.
- If the person is conscious, give small sips of water.
- Obtain medical attention if any discomfort develops.

Notes to Physician

- Treatment is symptomatic and supportive.
- Alkalinity of cementitious slurry may cause mild transient irritation; no specific antidote exists.
- Monitor for respiratory effects if significant dust inhalation occurred.

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

- Use extinguishing media appropriate for surrounding fire, such as:
 - Water spray or fog
 - Alcohol-resistant foam
 - Dry chemical powder (ABC)
 - Carbon dioxide (CO₂)

Unsuitable Extinguishing Media

- Do **not** use direct, high-pressure water jets (may disperse burning packaging).

Specific Hazards Arising from the Chemical

- The grout itself is non-combustible.
- Burning of paper/plastic packaging or polymer modifier may produce:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Oxides of nitrogen (NO_x)
 - Irritating smoke and particulates

Special Protective Equipment and Precautions for Fire-fighters

- Wear full structural firefighting turnout gear (helmet, coat, pants, gloves, boots).
- Use self-contained breathing apparatus (SCBA) with full facepiece.
- Cool exposed containers with water spray to prevent pressure buildup and possible rupture.
- Approach from upwind and avoid inhalation of combustion products.

Additional Information

- Fire-fighting runoff may be contaminated—contain and collect for proper disposal.
- Prevent extinguishing media from entering drains or waterways.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

- Evacuate non-essential personnel and ventilate the area.
- Don appropriate PPE: nitrile or neoprene gloves, safety goggles, and protective clothing to prevent skin and eye contact.

Environmental Precautions

- Prevent release of dry powder or slurry into drains, sewers, or surface waters.
- If material enters waterways, inform local authorities.

Methods for Containment

- For dry spills, gently sweep or vacuum using a HEPA-equipped unit into labeled containers.
- For wet slurry, confine spread with inert absorbent (e.g., sand, earth) to avoid runoff.

Methods for Cleanup

- **Dry Powder:**
Collect into sealed drums for reuse or disposal.
Minimise dust generation during handling.
- **Wet Slurry:**
Shovel or scoop into waste containers and allow to harden; dispose of as cured solid in accordance with Section 13.
- **Residual Dust/Slurry:**
Wipe surfaces with a damp cloth; collect cloths for disposal as non-hazardous waste.
- **Final Cleaning:**
Wash area with water and mild detergent, capturing all wash-water; adjust pH to 6–9 before discharge or send for proper wastewater treatment.

Reference

- See Section 8 for personal protective equipment.
- See Section 13 for waste disposal methods.

7. HANDLING AND STORAGE**Handling**

- Handle with care to prevent dust formation.
- Use only in well-ventilated areas.
- Avoid inhalation of dust and contact with skin or eyes.
- Wear appropriate personal protective equipment (see Section 8), including dust mask, gloves, and eye protection.
- Do not eat, drink, or smoke while handling the product.
- Wash hands and exposed skin thoroughly after use.
- Seal partially used bags tightly to prevent moisture ingress and hardening.

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Storage

- Store in original, tightly sealed bags or containers.
- Keep in a dry, cool, and well-ventilated place at **5–30 °C**.
- Protect from moisture, humidity, and direct sunlight.
- Avoid storing near acids or incompatible materials.
- Use on a first-in, first-out (FIFO) basis.
- Shelf life is **12 months** from date of manufacture if stored as recommended.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	Occupational Exposure Limit (TWA)	Source
Respirable crystalline silica	0.05 mg/m ³	OSHA PEL
Inhalable dust (total)	10 mg/m ³	OSHA PEL

- **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	Grey to off-white powder
Odour	Odourless
pH (mixed slurry)	11–13 (strongly alkaline)
Bulk density	1.3–1.7 g/cm ³
Water demand	4.5–5.5 L per 20 kg bag
Working time	20–30 minutes at 23 °C
Setting time (initial/final)	2 h / 24 h at 23 °C, 50 % RH
Compressive strength	≥ 25 MPa (28 days, 23 °C)
Flexural strength	≥ 5 MPa (28 days, 23 °C)
Water absorption	< 2 % (24 h immersion)
Linear shrinkage	< 0.1 % (28 days)
Solubility	Insoluble when cured; dispersible in slurry only
Thermal conductivity	~ 0.8 W/m·K
Storage stability	12 months in unopened bags under dry conditions (5–30 °C)

10. STABILITY AND REACTIVITY

Chemical Stability

- Stable under normal conditions of storage and handling (dry, cool, and well-ventilated environment).

Possibility of Hazardous Reactions

- No hazardous polymerization will occur.
- Reacts exothermically with water during setting; avoid mixing in sealed containers.

Conditions to Avoid

- Exposure to moisture during storage (can cause premature setting).
- Freezing temperatures, which may affect additives.
- Excessive heat or humidity.

Incompatible Materials

- Strong acids (e.g., hydrochloric, sulfuric acids) — can cause violent reaction.
- Ammonium salts — may accelerate setting unpredictably.
- Strong oxidizing agents — may degrade organic additives.

Hazardous Decomposition Products

- Under fire or thermal decomposition (from packaging or polymer additives):
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
 - Irritating smoke and particulates

Note: The fully cured grout is inert and does not undergo hazardous reactions under normal use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

- **Oral (rat):** LD₅₀ > 5,000 mg/kg (estimated; low toxicity)
- **Dermal (rabbit):** LD₅₀ > 5,000 mg/kg (no significant dermal toxicity)
- **Inhalation (rat):** LC₅₀ > 5 mg/L (4 h, dust)

Skin Corrosion/Irritation

- **Category 2:** Causes skin irritation. Prolonged contact with wet grout may cause alkaline burns or dermatitis.

Serious Eye Damage/Irritation

- **Category 2A:** Causes serious eye irritation. Direct eye contact with dry powder or slurry may result in redness, pain, or potential corneal damage.

Respiratory or Skin Sensitization

- **Not classified:** No evidence of sensitization observed under typical use conditions.

Specific Target Organ Toxicity – Single Exposure (STOT-SE)

- **Category 3:** May cause respiratory tract irritation if dust is inhaled.

Specific Target Organ Toxicity – Repeated Exposure (STOT-RE)

- **Not classified:** No known chronic organ toxicity at normal occupational exposure levels.

Carcinogenicity

- **Not classified:** Contains <1% respirable crystalline silica—below regulatory concern.
- Not listed as a carcinogen by IARC, NTP, or OSHA.

Mutagenicity / Genotoxicity

- **Not classified:** No evidence of mutagenic effects in available data.

Reproductive Toxicity

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

Aspiration Hazard

Not applicable: Solid, non-volatile material; aspiration unlikely.

Note: Long-term repeated exposure to dust may contribute to respiratory irritation. Use recommended PPE and engineering controls to minimize exposure.

12. ECOLOGICAL INFORMATION

- **Aquatic Toxicity**

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

Daphnia magna (48 h EC₅₀): > 100 mg/L

Algae (72 h ErC₅₀): > 100 mg/L

- **Persistence and Degradability**

Inorganic components (cement, sand) are not biodegradable.

Polymer additives are slowly biodegradable under aerobic conditions.

- **Bioaccumulative Potential**

Log K_{ow}: < 1 (for polymer additives); very low potential for bioaccumulation.

Inert mineral components do not bioaccumulate.

- **Mobility in Soil**

Dry product is not mobile; slurry may temporarily disperse in water before settling and hardening.

Once cured, the product becomes immobile and binds to soil or concrete substrate.

- **Other Adverse Effects**

pH Effect: Slurry and runoff are highly alkaline (pH 11–13); may be harmful to aquatic organisms.

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

- **Environmental Note:** Prevent large spills or slurry from entering waterways. Allow slurry to harden before disposal, and neutralize any wash water to pH 6–9 before release.

13. DISPOSAL CONSIDERATIONS

- **Waste Treatment Methods**

- **Unmixed Dry Product:**

Sweep or vacuum up excess dry grout and place in sealed, labeled containers.

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

- **Mixed (Wet) Grout or Slurry:**

Allow material to fully set and harden in a controlled area.

Once cured, treat as construction and demolition (C&D) waste and dispose as non-hazardous solid waste.

- **Cured Product:**

Inert and stable; dispose of as general building waste.

May be recycled or reused depending on local acceptance.

- **Cleaning Wastewater (from tools or spills):**

Collect wash water; neutralize to pH 6–9 before discharge to drain (if permitted by local regulations).

Do not allow rinseate to enter surface waters or soil directly.

- **Contaminated Packaging**

Empty bags may retain residue.

Allow residual dust to harden or brush out, then dispose of packaging as non-hazardous waste.

Recycle if facilities are available.

- **Regulatory Considerations**

Comply with Law No. 4/1994 and other applicable national/local waste management requirements.

For large-scale disposal, consult licensed waste management services and retain documentation as required.

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14. TRANSPORT INFORMATION

Mode of Transport	UN Number	Proper Shipping Name	Transport Hazard Class	Packing Group
Road / Rail (ADR/RID)	Not regulated	Not classified as dangerous goods	—	—
Sea (IMDG)	Not regulated	Not classified as dangerous goods	—	—
Air (IATA/ICAO)	Not regulated	Not classified as dangerous goods	—	—

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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