

MSDS- VOGA TILE GROUT

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGA TILE GROUT**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGA TILE GROUT

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/UNDERTAKING1. Product identifierProduct name **Voga Tile-Grout**2. Relevant identified uses of the substance or mixture and uses advised againstIdentified uses : **Cementitious grout for tiles**3. Details of the supplier of the safety data sheetSupplier

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.

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

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

3. COMPOSITION

Component	CAS No.	Concentration (% w/w)	Classification
Portland cement	1-15-65997	60–40	Skin Irrit. 2; Eye Irrit. 2A
Calcium carbonate (limestone filler)	3-65-1317	20–10	Not classified
Silica sand	9-86-7631	20–10	Not classified
Polymer dispersion (redispersible)	—	7–3	Not classified
Cellulosic thickener and additives	Confidential	5 ≥	Not classified

4. FIRST AID MEASURES**Inhalation**

- Remove victim to fresh air and keep at rest in a comfortable position for breathing.
- If irritation of the respiratory tract (coughing, sore throat) persists, seek medical attention.

Skin Contact

- Brush off any dry material.
- Wash affected area thoroughly with soap and water for at least 15 minutes.
- If redness, itching or rash develops, obtain medical advice.
- Contaminated clothing and footwear should be removed and laundered before reuse.

Eye Contact

- Rinse immediately with clean, gently flowing water for at least 15 minutes, holding eyelids apart.
- 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 discomfort occurs.

Notes to Physician

- Treatment is symptomatic.
- Alkalinity of the slurry may cause mild irritation; no specific antidote.
- Monitor for signs of respiratory irritation if significant dust inhalation occurred.

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

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

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

- The product itself is non-combustible.
- Burning of packaging materials may generate:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Oxides of nitrogen
 - Irritating smoke and particulate

Special Protective Equipment and Precautions for Fire-fighters

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

Additional Information

- Collect and contain fire-fighting runoff; prevent it from entering drains or waterways.
- Dispose of contaminated extinguishing water in accordance with local environmental regulations

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

- Evacuate non-essential personnel from the area.
- Avoid breathing dust. If dust concentration exceeds occupational limits, wear a P2/P3 particulate respirator.
- Don appropriate PPE: nitrile or neoprene gloves, safety goggles, and protective clothing.

Environmental Precautions

- Prevent material from entering drains, sewers, or surface water.
- If product does enter waterways, notify local authorities as required.

Methods for Containment

- Gently sweep or shovel dry material to minimize dust generation.
- Dike spills with inert absorbent (e.g., sand, earth) to prevent spread.

Methods for Cleanup

- **Bulk Removal:** Carefully collect spilled grout into suitable, labeled containers for disposal (see Section 13).
- **Residual Dust:** Lightly dampen remaining dust with water to suppress airborne particles, then sweep or vacuum with a HEPA-equipped unit.
- **Final Cleaning:** Rinse spill area with water and mild detergent; collect wash-water and dispose of per local regulations.

Refer to Section 8 for recommended personal protective equipment and Section 13 for waste disposal methods.

7. HANDLING AND STORAGE

- **Minimise dust generation:** Mix and apply the grout in a well-ventilated area; avoid dry sweeping.
- **Avoid inhalation:** If airborne dust may exceed limits, wear a P2/P3 particulate respirator.
- **Prevent skin and eye contact:** Wear nitrile or neoprene gloves, long-sleeved protective clothing and safety goggles.
- **Hygiene measures:** Do not eat, drink or smoke while handling. Wash hands and exposed skin thoroughly after use and before breaks.
- **Keep containers closed:** Seal bags when not in use to prevent moisture uptake and dust release.
- **Spill prevention:** Handle bags carefully to avoid tearing; use secondary containment (tray or pallet) to catch accidental leaks.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Parameter	Occupational Exposure Limit	Source
Respirable crystalline silica (quartz)	0.05 mg/m ³ (TWA)	OSHA PEL
Inhalable dust (total)	10 mg/m ³ (TWA)	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, 1:1 w/w)	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 in water once 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)

All data are typical values obtained under laboratory conditions and may vary with local site conditions.

10. STABILITY AND REACTIVITY**Chemical Stability**

- Stable under normal storage and handling conditions (5–30 °C, dry, well-ventilated).

Possibility of Hazardous Reactions

- Hazardous reactions will not occur under recommended use and storage.
- No exothermic self-accelerating decomposition.

Conditions to Avoid

- Prolonged exposure to moisture or water (may cause pre-setting in bag).
- Extreme temperatures (< 0 °C or > 50 °C).
- Generation of excessive airborne dust.

Incompatible Materials

- Strong acids (e.g., hydrochloric, sulfuric) – acid attack and vigorous reaction.
- Ammonium salts – can accelerate setting unpredictably.
- Strong oxidizers (e.g., peroxides, nitrates).

Hazardous Decomposition Products

- Under fire conditions (burning packaging): carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen, and irritating smoke/particulate.
- No decomposition under normal use; inorganic matrix does not degrade.

Additional Information

- Good housekeeping to prevent dust accumulation.
- Avoid mixing with non-recommended chemicals that may alter reaction or produce heat.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Oral (rat): LD₅₀ > 5,000 mg/kg (estimated inert mineral matrix)

Dermal (rabbit): LD₅₀ > 5,000 mg/kg (no significant dermal toxicity)

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

Skin Corrosion/Irritation

Category 2: Causes mild to moderate skin irritation due to alkaline pH of wet slurry.

Serious Eye Damage/Irritation

Category 2A: May cause serious eye irritation; risk of corneal damage if not rinsed promptly.

Respiratory or Skin Sensitization

Not classified: No evidence of sensitization in animal or human studies.

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

Category 3: May cause respiratory irritation if inhaled as fine dust in high concentrations.

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

Not classified: No known chronic target-organ effects from repeated exposure at expected use levels.

Carcinogenicity

Not classified: Crystalline silica content is < 1 %; respirable silica fraction is below regulatory concern levels. Not listed by IARC, NTP, OSHA, or EU.

Mutagenicity / Genotoxicity

Not classified: No data indicating mutagenic or genotoxic effects.

Reproductive Toxicity

Not classified: No evidence of reproductive or developmental toxicity.

Aspiration Hazard

Not relevant: Solid material; aspiration unlikely.

Note: Prolonged or repeated skin contact with wet grout can lead to alkaline dermatitis—wear appropriate gloves and wash exposed skin after handling.

12. ECOLOGICAL INFORMATION• **Ecotoxicity**

Fish (96 h LC₅₀): > 100 mg/L (inert mineral matrix; low toxicity)

Daphnia magna (48 h EC₅₀): > 100 mg/L

Algae (72 h ErC₅₀): > 100 mg/L

• **Persistence and Degradability**

Inorganic matrix; not subject to biodegradation.

• **Bioaccumulative Potential**

Not bioaccumulative (mineral components).

• **Mobility in Soil**

Insoluble once cured; low mobility, binds to soil and sediment.

In slurry form, may disperse in water but precipitates as pH neutralizes.

• **Other Adverse Effects**

Alkaline runoff (pH 11–13) may transiently raise water pH—neutralize runoff to pH 6–9 before discharge.

Not classified as PBT or vPvB under REACH criteria.

Recommendation: Prevent large releases of slurry to waterways. Collect and allow slurry to set/harden before disposal as solid waste.

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

- **Hardened Grout:** Allow any slurry to fully set and harden, then dispose as inert construction waste in accordance with local regulations.
- **Unmixed or Slurry:** Collect excess slurry in sealed containers and allow to cure; once cured, dispose as non-hazardous solid waste.
- **Dry Powder Waste:** Sweep or vacuum into sealed containers; recycle if permitted or dispose as non-hazardous solid waste.
- **Contaminated Water/Rinse Solutions:** Neutralize pH to 6–9, then discharge to sewer if allowed by local authority or collect for hazardous-waste treatment.
- **Contaminated Packaging**

Empty bags may contain residue. Triple-rinse with water, collect rinseate for appropriate disposal, then recycle or dispose of bags as non-hazardous waste.

• **Regulatory Considerations**

Comply with Egypt's Environmental Law No. 4/1994 and any regional/local waste-management regulations.

Maintain disposal records and manifests as required by authorities.

Ensure transport of any waste off-site follows applicable regulations (see Section 14).

14. TRANSPORT INFORMATION

Mode	UN Number	Proper Shipping Name	Class	Packing Group
Road/Rail (ADR/RID)	—	Not regulated (dry, non-hazardous)	—	—
Sea (IMDG)	—	Not regulated (dry, non-hazardous)	—	—
Air (IATA/ICAO)	—	Not regulated (dry, non-hazardous)	—	—

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15. Regulatory Information

- **GHS Labeling (Egypt & EU)**
- **Signal word:** Danger
- **Pictograms:**
 - GHS05 (Corrosion)
 - GHS07 (Exclamation)
- **Hazard Statements:** H314, H317, H335
- **Precautionary Statements:** P260, P264, P272, P280, P302+P352, P305+P351+P338, P310, P333+P313
- **European Union**
- **REACH (EC 1907/2006):** All components pre-registered or registered.
- **CLP (EC 1272/2008):** Resin and hardener classified under Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT SE 3.
- **VOC Directive (2004/42/EC):** < 50 g/L VOC (mixed).
- **United States**
- **TSCA Inventory:** All ingredients listed.
- **OSHA Hazard Communication Standard (29 CFR 1910.1200):** Hazardous chemical.
- **CERCLA/SARA:**
 - SARA 311/312: Acute health hazard.
 - SARA 313: Hardener component (amines) reportable.
- **Egyptian Regulations**
- **Environmental Law No. 4/1994:** Classification and disposal requirements for chemical wastes.
- **GHS Alignment:** Adoption of GHS Rev. 6 for classification and labeling.
- **Label Approval:** Labels must be approved by Ministry of Industry & Trade.
- **Other International Listings**
- **Canada (DSL/NDSL):** All components listed.
- **Australia (AICS):** All components listed.
- **China (IECSC):** All components listed.
- **Japan (ENCS):** All components listed.

Users must verify and comply with any additional, jurisdiction-specific regulations and update SDS and labels as regulations evolve.

16. OTHER INFORMATION

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable