MSDS- Voga Tile-Grout/UW

1.Identification

Product identifier

Voga Tile-Grout/UW

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1. Product identifier

Product name **Voga Tile-Grout/UW**

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

Identified uses **: Tile & Ceramic adhesive for damp and under water conditions**

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 (H-codes):

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statements (P-codes):

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 contact lenses, if present and easy to do. Continue rinsing.

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

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

3. COMPOSITION

Component	CAS No.	Concentration (% w/w)	Classification
Portland cement	1-15-65997	60–40	Skin Irrit. 2; Eye Irrit. 2A
Polymer-modified latex dispersion	—	15–5	Not classified
Fine quartz sand	9-86-7631	30–20	Not classified
Redispersible polymer powder	—	7–3	Not classified
Cellulosic thickener (hydroxypropyl cellulose)	0-62-9004	3–1	Not classified
Waterproofing additive (silane/siloxane)	Confidential	3–1	Not classified

4. FIRST AID MEASURES

Inhalation
- Remove the affected person to fresh air and keep them at rest in a comfortable position for breathing.
- If respiratory irritation (coughing, throat discomfort) persists, seek medical attention.

Skin Contact
- Brush off any dry material.
- Wash skin thoroughly with plenty of water and mild soap for at least 15 minutes.
- If irritation or rash develops, obtain medical advice.
- Remove and launder contaminated clothing before reuse.

Eye Contact
- Rinse cautiously with clean, gently flowing water for at least 15 minutes, holding the eyelids open.
- Remove contact lenses if present and easy to do; continue rinsing.
- If eye irritation persists, seek ophthalmologic evaluation.

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 occurs.

Notes to Physician
- Treat symptomatically and supportively.
- Alkalinity of cementitious slurry may cause mild irritation; no specific antidote.
- Monitor for respiratory effects following significant dust inhalation.

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 (CO_2)

Unsuitable Extinguishing Media
- Do **not** use direct, high-pressure water jets (may disperse product and spread fire if packaging burns).

Specific Hazards Arising from the Chemical
- The adhesive itself is non-combustible.
- Burning of paper/plastic packaging may produce:
  Carbon monoxide (CO)
  Carbon dioxide (CO_2)
  Oxides of nitrogen (NO_x)
  Irritating smoke and particulates

Special Protective Equipment and Precautions for Fire-fighters
- Wear full structural firefighting 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 possible rupture.
- Approach fire from upwind to avoid smoke and combustion products.

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Evacuate non-essential personnel and ventilate the area.
- Avoid inhalation of dust; if dust levels exceed OELs, wear a P2/P3 particulate respirator.
- Wear nitrile gloves, safety goggles, and protective clothing to prevent skin and eye contact.

Environmental Precautions
- Prevent product from entering drains, sewers or waterways.
- If material enters waterways, notify appropriate authorities.

Methods for Containment
- For dry powder spills, gently sweep or vacuum (HEPA-equipped) into suitable, labeled containers.
- For slurry (mixed adhesive), contain spread using absorbent pads or inert material (e.g., sand), and collect into containers.

Methods for Cleanup
- **Dry Material:**
  Collect into sealed drums for reuse or disposal.
- **Wet Slurry:**
  Scoop or shovel into containers and allow to cure; once hardened, dispose as solid waste.
- **Residual Dust/Slurry:**
  Wipe surfaces with damp cloths; collect cloths for disposal.
- **Final Cleaning:**
  Rinse area with water and mild detergent, preventing washwater from entering drains; collect rinseate for pH adjustment (6–9) before discharge.
- **Reference Sections**

See Section 8 for personal protective equipment.
See Section 13 for waste disposal considerations.

7. HANDLING AND STORAGE

- **Handling**

Mix and apply only in well-ventilated areas to minimize dust and slurry vapors.
Avoid generating airborne dust; use gentle mixing and scoop techniques rather than high-speed agitation.
Prevent skin and eye contact—wear nitrile or neoprene gloves, long-sleeved protective clothing, and splash-resistant goggles.
Do **not** eat, drink, or smoke while handling the product. Wash hands and any exposed skin thoroughly after handling and before breaks.
Seal partially used bags promptly to prevent moisture uptake and product hardening in the bag.
Use secondary containment (trays or pallets) to catch spills when handling bulk bags or pails.

- **Storage**

Store unopened bags or containers in a cool (5–30 °C), dry, well-ventilated area.
Protect from moisture, direct sunlight, and freezing temperatures.
Keep away from strong acids and reactive chemicals.
Use on a first-in, first-out basis; shelf life is 12 months from date of manufacture when stored as directed.
Provide spill trays or secondary containment under storage racks to catch accidental leaks or bag failures.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Parameter	OEL (TWA)	Source
Inhalable dust (total)	10 mg/m³	OSHA PEL
Respirable crystalline silica	0.05 mg/m³	OSHA PEL

- **Engineering controls:** Local exhaust or general ventilation.
- **Respiratory:** If dust > OEL, use P2/P3 particulate respirator.
- **Eye:** Splash-resistant goggles.
- **Skin:** Nitrile or neoprene gloves; protective clothing.
- **Hygiene:** Wash before breaks and after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Grey powder
Odour	Odourless
pH (slurry)	13–11
Bulk density	1.3–1.7 g/cm³
Water demand	4.5–5.5 L/20 kg bag
Open time	20–30 min at 23 °C
Adjustability	35–45 min
Compressive strength	≥ 10 MPa (28 days)
Flexural strength	≥ 3 MPa (28 days)
Water absorption	< 5 % (24 h immersion)
Solubility	Insoluble once cured; dispersible as slurry
Storage stability	12 months unopened, 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**

No hazardous polymerization or self-accelerating reactions will occur under recommended use.

- **Conditions to Avoid**

Prolonged exposure of the dry product to moisture or humidity (may initiate setting in bag).
Freezing temperatures (may damage polymer additives).
Generation of excessive airborne dust.

- **Incompatible Materials**

Strong acids (e.g., hydrochloric, sulfuric) – will react vigorously with cementitious components.
Ammonium or nitrate salts – can accelerate setting unpredictably.
Strong oxidizers (e.g., peroxides) – may degrade polymer additives.

- **Hazardous Decomposition Products**

Under fire conditions (burning packaging):
Carbon monoxide (CO)
Carbon dioxide (CO_2)
Oxides of nitrogen (NO_x)
Irritating smoke and particulate.

Note: The cured adhesive is inert; no decomposition under normal use. Maintain good housekeeping to prevent dust accumulation and accidental moisture exposure of stored bags.

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity**
  Oral (rat): LD_{50} > 5,000 mg/kg (inert mineral matrix)
  Dermal (rabbit): LD_{50} > 5,000 mg/kg (no significant dermal toxicity)
  Inhalation (rat): LC_{50} > 5 mg/L (4 h, respirable dust)
- **Skin Corrosion/Irritation**
  Category 2: Causes skin irritation – prolonged contact with wet slurry may lead to dermatitis.
- **Serious Eye Damage/Irritation**
  Category 2A: Causes serious eye irritation – risk of corneal damage if not rinsed promptly.
- **Respiratory or Skin Sensitization**
  Not classified: No evidence of sensitization in available studies.
- **Specific Target Organ Toxicity – Single Exposure (STOT-SE)**
  Category 3: May cause respiratory tract irritation if inhaled as fine dust.
- **Specific Target Organ Toxicity – Repeated Exposure (STOT-RE)**
  Not classified: No known chronic target-organ effects at expected exposure levels.
- **Carcinogenicity**
  Not classified: Contains < 1 % crystalline silica; respirable fraction below regulatory concern. Not listed by IARC, NTP, OSHA, or EU.
- **Mutagenicity / Genotoxicity**
  Not classified: Negative in standard in vitro and in vivo assays.
- **Reproductive Toxicity**
  Not classified: Available data show no adverse effects on fertility or development.
- **Aspiration Hazard**
  Not relevant: Solid material; aspiration unlikely.

Note: Prolonged or repeated skin contact with the alkaline slurry may cause irritation—use appropriate gloves and wash exposed skin after handling.

12. ECOLOGICAL INFORMATION

- **Aquatic Toxicity**
  Fish (96 h LC_{50}): > 100 mg/L (inert mineral matrix; low toxicity)
  Daphnia magna (48 h EC_{50}): > 100 mg/L
  Algae (72 h ErC_{50}): > 100 mg/L
- **Persistence and Degradability**
  Inorganic cementitious and mineral components are not subject to biodegradation.
  Polymer modifier is slowly degradable under aerobic conditions but overall mixture considered non-biodegradable.
- **Bioaccumulative Potential**
  Log K_ow: < 1 for polymer fraction; low potential for bioaccumulation.
  Mineral components do not bioaccumulate.
- **Mobility in Soil**
  Dry product insoluble; low mobility once cured.
  Slurry may disperse temporarily but will precipitate and bind as pH neutralizes.
- **Other Adverse Effects**
  pH effect: Alkaline runoff (pH 11–13) can transiently raise water pH; may harm aquatic life if not neutralized.
  Not classified as PBT or vPvB under REACH criteria.

13. DISPOSAL CONSIDERATIONS

- **Waste Treatment Methods**
  Hardened Adhesive: Allow any slurry or cured adhesive to fully set; dispose as inert construction and demolition waste in accordance with local regulations.
  Uncured Slurry: Collect excess slurry in sealed containers and allow to cure; once hardened, dispose as non-hazardous solid waste.
  Dry Powder Residue: Sweep or vacuum into sealed containers; recycle if permitted or dispose as non-hazardous solid waste.
  Cleaning Rinse Water: Collect wash-water and adjust pH to 6–9 before discharge to sewer, if allowed by local authority; otherwise, manage as industrial wastewater.
- **Contaminated Packaging**
  Empty bags or pails retain product residue.
  Triple-rinse with water; collect rinseate for pH adjustment (6–9) and discharge or treat as above.
  Offer rinsed packaging for recycling or dispose as non-hazardous solid waste.
- **Regulatory Considerations**
  Comply with Law No. 4/1994 and any applicable regional or local waste-management regulations.
  Maintain proper waste-manifest documentation as required by authorities.
  Ensure that any off-site transport of cured or uncured material follows applicable transport 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)	—	—

15. Regulatory Information

- **GHS Labeling (Egypt & EU)**
- **Signal word:** Warning
- **Pictogram:** GHS07 (Exclamation)
- **Hazard Statements:** H315, H319, H335
- **Precautionary Statements:** P261, P264, P280, P302+P352, P305+P351+P338, P304+P340, P312
- **European Union**

REACH (EC 1907/2006): All constituents either registered or exempt.
CLP (EC 1272/2008): Classified as Skin Irrit. 2, Eye Irrit. 2, STOT SE 3.
VOC Directive (2004/42/EC): Not applicable (water-based).
United States
TSCA Inventory: All ingredients listed.
OSHA Hazard Communication Standard (29 CFR 1910.1200): Hazardous chemical.
EPA VOC Regulations: Meets national limits for water-based tile adhesives.
Egypt
Environmental Law No. 4/1994 & Amendments: Waste classification, handling, and disposal requirements apply.
GHS Alignment: National adoption of GHS Rev. 6 for classification and labeling.
Label Approval: All chemical labels must be approved by the Ministry of Industry & Trade.
Other Jurisdictions
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, country-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