

MSDS- VOGA TILE GROUT-EP

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGA TILE GROUT-EP**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGA TILE GROUT-EP

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 TILE GROUT-EP**

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

Identified uses : **Epoxy resin chemical resistant tile 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 Corrosion/Irritation – Category 1B

Serious Eye Damage/Irritation – Category 1

Skin Sensitization – Category 1

STOT-SE (respiratory irritation) – Category 3

Signal word: Danger

Pictograms:

Hazard statements:

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

Precautionary statements:

P260 Do not breathe vapours or mist

P264 Wash thoroughly after handling

P272 Contaminated work clothing must not be allowed out of the workplace

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with 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

P310 Immediately call a POISON CENTER or doctor

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

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3. COMPOSITION

Component	CAS No.	Concentration (% w/w)	Classification
Bisphenol A epoxy resin	6-38-25068	65–45	Skin Irrit. 2; Skin Sens. 1
Novolac epoxy resin	4-14-28064	20–10	Skin Irrit. 2; Eye Irrit. 2
Polyamine curing agent (proprietary)	—	20–10	Skin Corr. 1B; Skin Sens. 1
Inert mineral fillers (e.g. quartz)	7-60-14808	20–10	Not classified
Fumed silica (thickener)	Fumed silica (thickener)	Fumed silica (thickener)	Fumed silica (thickener)

4. FIRST AID MEASURES**Inhalation**

- Remove the victim to fresh air immediately.
- Keep them at rest in a comfortable position for breathing.
- If irritation, coughing or difficulty breathing persists, seek medical attention.

Skin Contact

- Remove contaminated clothing and rinse skin thoroughly with plenty of water for at least 15 minutes.
- Do **not** use solvents or thinners to wash skin.
- If redness, pain or blistering occurs, obtain medical advice.
- Launder clothing before reuse.

Eye Contact

- Rinse cautiously with clean, gently flowing water for at least 15 minutes, lifting both upper and lower eyelids.
- Remove contact lenses if present and easy to do; continue rinsing.
- Seek prompt ophthalmological evaluation.

Ingestion

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

Notes to Physician

- Treat symptomatically and supportively.
- There is no specific antidote; burns may require neutralization and specialized wound care.
- Monitor for respiratory irritation; administer humidified oxygen if needed.

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

- Dry chemical powder (e.g., ABC)
- Carbon dioxide (CO₂)
- Alcohol-resistant foam
- Water spray or fog

Unsuitable Extinguishing Media

- Do **not** use direct, high-pressure water jets (may spread burning resin and hardener).

Specific Hazards Arising from the Chemical

- Uncured resin and hardener components are combustible.
- In fire, may evolve:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
 - Irritating and toxic fumes (amine vapors, phenolic fragments)

Special Protective Equipment 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 potential rupture.
- Approach fire from upwind; avoid low-lying areas where vapors may collect.

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 area.
- Avoid inhalation of vapours or dust; if exposure limits may be exceeded, wear an organic-vapour/particulate respirator.
- Wear chemical-resistant gloves (nitrile or neoprene), splash-resistant goggles or face shield, and protective clothing.

Environmental Precautions

- Prevent product from entering drains, sewers or waterways.
- Contain any run-off with sand, earth or absorbent barriers; notify authorities if release reaches surface water.

Methods for Containment

- **Unmixed liquids (Part A or B):** Dike spill with inert absorbent (vermiculite, sand).
- **Mixed grout (uncured):** Allow to cure in place if practical, then collect solid mass.

Methods for Cleanup

- Absorb unmixed liquid with inert material and transfer to labeled waste containers for incineration (see Section 13).
- For uncured mixed grout, let material harden; then break up and shovel into waste drums.
- Residual film or dust may be wiped with solvent-dampened rags; place rags in sealed container and handle as hazardous waste.
- After bulk removal, wash area with water and detergent, collecting wash-water for proper disposal.

References

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

7. HANDLING AND STORAGE**Handling**

- Use only in well-ventilated areas to avoid vapour/mist accumulation.
- Minimise skin and eye contact—wear nitrile or neoprene gloves, long-sleeved protective clothing, and splash-resistant goggles or a face shield.
- Avoid inhalation of vapours/mists; if airborne concentrations may exceed exposure limits, use an approved organic-vapour/particulate respirator.
- Do **not** eat, drink or smoke while handling the product. Wash hands and any exposed skin thoroughly after handling and before breaks.
- Mix components only in their original, tightly closed containers. When combining, always add hardener slowly into resin while stirring to control heat evolution.
- Keep containers closed when not in use to prevent moisture ingress or accidental spills.

Storage

- Store Part A (resin) and Part B (hardener) separately in their original, clearly-labelled, tightly-sealed containers.
- Keep in a cool, dry, well-ventilated area away from direct sunlight, heat sources, sparks and open flames.
- Recommended storage temperature: **5–30 °C**.
- Protect hardener (Part B) from moisture and high humidity to prevent premature gelling.
- Segregate from strong acids, oxidizers and incompatible materials.
- Use on a “first in, first out” basis; shelf life is 12 months from manufacture when stored correctly.
- Provide secondary containment (spill trays) under storage containers to catch leaks or drips.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Parameter	Occupational Exposure Limit	Source
Inhalable dust (respirable)	0.1 mg/m ³ (quartz, respirable fraction)	OSHA PEL
Polyamine vapour/mist	1 mg/m ³ (as amine vapour)	ACGIH TLV
Epoxy resin vapour	Not established; minimise exposure	—

• Engineering Controls

Provide local exhaust at mixing and application points to capture vapours and dust.

Maintain general ventilation to keep airborne concentrations below OELs.

• Respiratory Protection

If TLVs may be exceeded, wear an approved organic-vapour/particulate respirator (e.g., combination cartridge).

For emergency or high-exposure situations, use a supplied-air respirator or SCBA.

• Eye Protection

Wear chemical-splash goggles with side-shields or a full-face respirator with splash protection.

• Skin Protection

Use nitrile or neoprene gloves resistant to epoxy and amine penetration.

Wear long-sleeved chemical-resistant garments (coveralls, apron) to prevent skin contact.

• Hand Hygiene & Other Measures

Do not eat, drink or smoke in work areas.

Wash hands and any exposed skin thoroughly before breaks and after work.

Contaminated clothing should be laundered before reuse; discard heavily contaminated items.

• Environmental Controls

Prevent releases to drains or waterways; collect and treat all wash-water and cleaning residues in accordance with local regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Part A: amber, thixotropic pastePart B: pale yellow, thixotropic paste
Odour	Mild amine
pH (mixed, 1:1 w/w slurry)	11–9
Boiling point	Not applicable (non-volatile, high-MW polymer)
Flash point	Part A: > 200 °C (PMCC)Part B: > 100 °C (PMCC)
Evaporation rate	Negligible
Vapour pressure (20 °C)	< 0.1 mm Hg
Density (mixed)	1.4–1.6 g/cm ³
Viscosity (mixed)	15 000–40 000 mPa·s (rotational)
Solubility	Insoluble in water; soluble in epoxides, esters
Partition coefficient	Log K _{ow} < 3 (mixed)—low potential for bioaccumulation
Auto-ignition temperature	Not determined
Decomposition temperature	> 300 °C (onset of polymer backbone breakdown)
Explosive properties	Not explosive
Oxidising properties	Not oxidising

10. STABILITY AND REACTIVITY**Chemical Stability**

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

Possibility of Hazardous Reactions

- No hazardous polymerization will occur in unmixed components.
- Once resin and hardener are combined, an exothermic curing reaction takes place—avoid mixing large volumes at once to control heat build-up.

Conditions to Avoid

- Excessive heat (> 50 °C) or direct sunlight (may degrade components).
- Prolonged exposure of Part B (amine hardener) to moisture or high humidity (can cause premature gelling).

Generation of dust from mineral fillers (respirable quartz dust may cause lung irritation).

Incompatible Materials

- Strong oxidizers (e.g., peroxides, nitrates)
- Strong acids (e.g., hydrochloric, sulfuric)
- Unapproved amines or curing agents outside specified formulation
- Reactive metals (e.g., sodium, potassium)

Hazardous Decomposition Products

- In fire or at elevated temperatures:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
 - Irritating amine vapors and phenolic fragments

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity**
 - Oral (rat):** LD₅₀ > 2,000 mg/kg (mixed product; based on component data)
 - Dermal (rabbit):** LD₅₀ > 2,000 mg/kg
 - Inhalation (rat):** LC₅₀ > 5 mg/L (4 h, vapour/mist)
- **Skin Corrosion/Irritation**
 - Part A (resin):** Category 2 – causes skin irritation.
 - Part B (amine hardener):** Category 1B – causes severe skin burns.
- **Serious Eye Damage/Irritation**
 - Part A (resin):** Category 2 – causes eye irritation.
 - Part B (amine hardener):** Category 1 – causes serious eye damage.
- **Skin Sensitization**
 - Part B (amine hardener):** Category 1 – may cause allergic skin reactions.
 - Part A (resin):** Not classified.
- **Respiratory Sensitization**
 - Not classified – no evidence of respiratory sensitization in animal studies.
- **Specific Target Organ Toxicity – Single Exposure (STOT-SE)**
 - Category 3 – may cause respiratory tract irritation if vapours or mists are inhaled at high concentrations.
- **Specific Target Organ Toxicity – Repeated Exposure (STOT-RE)**
 - Not classified – no known chronic organ effects at expected exposure levels.
- **Carcinogenicity**
 - Not listed as carcinogenic by IARC, NTP, OSHA, or EU ACGIH.
- **Mutagenicity / Genotoxicity**
 - Negative in standard in vitro and in vivo assays.
- **Reproductive Toxicity**
 - Not classified – available data do not indicate adverse reproductive effects.
- **Aspiration Hazard**
 - Not relevant – non-volatile liquid when mixed.

Note: Prolonged or repeated skin contact with uncured epoxy components can lead to sensitization or dermatitis. Always use recommended PPE and wash skin after handling.

12. ECOLOGICAL INFORMATION

- **Aquatic Toxicity**
 - Fish (96 h LC₅₀):** 10–100 mg/L (amine hardener)
 - Daphnia magna (48 h EC₅₀):** 1–10 mg/L (amine hardener)
 - Algae (72 h ErC₅₀):** 10–100 mg/L (mixed product)
- **Persistence and Degradability**
 - Resin and cured material:** Forms a cross-linked network; not readily biodegradable.
 - Hardener (amine):** Moderately biodegradable under aerobic conditions (BOD/COD ratio < 0.3).
- **Bioaccumulative Potential**
 - Log K_{ow} (mixed):** < 3, indicating low potential for bioaccumulation.
- **Mobility in Soil**
 - Mixed/cured:** Immobile; adheres strongly to soil and sediment.
 - Uncured components:** Limited water solubility; slight leaching of amine residues possible over prolonged exposure.
- **Other Adverse Effects**
 - pH effect:** Run-off may be alkaline (pH 9–11); neutralize before discharge to protect aquatic life.
 - Not classified** as PBT or vPvB under REACH criteria.

Recommendation: Prevent release of uncured material to the environment. Collect spills for curing and dispose of as solid waste. Any wash-off water should be contained, adjusted to pH 6–9, and treated prior to discharge.

13. DISPOSAL CONSIDERATIONS

- **Waste Treatment Methods**
- **Uncured Liquid Components (Part A & B):**
 Absorb spills and residual liquids with inert absorbents (e.g., sand, vermiculite).
 Transfer to clearly labelled, compatible containers for disposal via a licensed hazardous-waste facility or high-temperature incineration.
- **Mixed (Uncured) Grout:**
 Allow material to fully cure (harden) in a well-ventilated, containment area.
 Once cured, collect and dispose as non-hazardous solid waste in accordance with local regulations.
- **Cured Material:**
 Dispose as inert construction and demolition waste; recycling may be possible if accepted by local facilities.
- **Cleaning Solvents / Rinseates:**
 Collect wash-water and solvent rinses; manage as hazardous waste—do not discharge to drains.
- **Contaminated Packaging**
 Empty containers retain product residues and should not be reused.
 Triple-rinse with water or an appropriate solvent; collect rinseate for hazardous-waste disposal.
 Offer rinsed containers for recycling or dispose through licensed waste-management channels.
- **Regulatory Considerations**
 Comply with Egypt's Environmental Law No. 4/1994 and any applicable local/national waste-management regulations.
 Maintain accurate waste-characterization records and disposal manifests as required by authorities.
 Ensure off-site transport of hazardous waste follows ADR/IMDG/IATA requirements (see Section 14).

Always consult local environmental authorities for site-specific disposal requirements and necessary permits.

14. TRANSPORT INFORMATION

Mode	UN Number	Proper Shipping Name	Class	Packing Group
Road/Rail (ADR/RID)	UN 2735	Amines, liquid, corrosive, n.o.s. (Part B)	8	III
	—	Not regulated (Part A – resin)	—	—
Sea (IMDG)	UN 2735	Amines, liquid, corrosive, n.o.s.	8	III
	—	Not regulated (resin)	—	—
Air (IATA/ICAO)	UN 2735	Amines, liquid, corrosive, n.o.s.	8	III
	—	Not regulated (resin)	—	—

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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

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