

MSDS-Voga Fiber G

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VOGEL SYSTEMS Safety data sheet Date /

Revised: 19.09.2022

Product: **MSDS-Voga Fiber G**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

Voga Fiber G

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/UNDERTAKINGProduct identifierProduct name **Voga Fiber G****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **Glass Synthetic fiber for Concrete****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:**

- Eye Irritation (Category 2A)

Label Elements:

- **Signal Word:** Warning

Hazard Statements:

- H319: Causes serious eye irritation

Precautionary Statements:

- P264: Wash hands thoroughly after handling
- P280: Wear eye protection
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Other Hazards:

- Mechanical irritation from fibers (eyes, skin, respiratory tract) if dust/fibers become airborne.

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3. COMPOSITION

Substance	CAS No.	Concentration (%)	Classification
Alkali-Resistant Glass Fiber (AR-GF)	3-17-65997	99 ≤	Not classified
Lubricants / Size Agents	Proprietary	1 >	Not classified

*Exact composition withheld as a trade secret.

4. FIRST AID MEASURES**Inhalation:**

- If dust causes irritation, move the affected person to fresh air.
- Keep them at rest in a position comfortable for breathing.
- Seek medical attention if respiratory symptoms persist.

Skin Contact:

- Brush off loose fibers gently—do not rub.
- Wash the affected area with plenty of soap and water.
- If irritation or redness develops, seek medical advice.

Eye Contact:

- Rinse cautiously with clean water for at least 15 minutes, lifting the upper and lower eyelids.
- Remove contact lenses if present and easy to do.
- Continue rinsing.
- If eye irritation persists, seek prompt ophthalmic care.

Ingestion:

- Not expected to be a likely route of exposure.
- If swallowed accidentally, rinse mouth with water.
- Do not induce vomiting.

Seek medical advice if discomfort occurs.

Note: Provide this sheet to medical personnel for further guidance.

5. FIRE FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂.
- **Unsuitable Media:** None specific.
- **Specific Hazards:** When exposed to extreme heat, fibers may fracture and release silica dust.
- **Protective Equipment:** Fire-fighters should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Protection:** Use appropriate PPE; avoid contact with skin and eyes
- **Spill Cleanup:** Contain and collect with absorbent material. Avoid discharge into drains or environment.
- **Disposal:** Dispose of in accordance with local regulations

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7. HANDLING AND STORAGE**Handling:**

- Use in well-ventilated area.
- Avoid creating dust.
- Wear appropriate PPE (see Section 8).

Storage:

- Store in original, closed containers, in a dry area.
- Protect from moisture and direct sunlight.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	OEL (TWA)
Inhalable dust (general)	10 mg/m ³ (ACGIH)
Respirable dust (general)	3 mg/m ³ (ACGIH)

- **Engineering Controls:** Local or general ventilation to keep dust below OELs.

PPE:

- **Respiratory:** If dust exceeds OEL, use particulate respirator (e.g. P2/P3).
- **Eyes:** Safety goggles.
- **Skin:** Nitrile or PVC gloves.
- **Hygiene:** Wash hands after handling; launder contaminated clothing separately

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	White to off-white filament bundles
Odor	Odorless
pH	Not applicable (solid inorganic fiber)
Melting Point	> 1 200 °C
Density	≈ 2.6 g/cm ³
Solubility	Insoluble in water, acids, and bases
Flash Point	Not flammable
Bulk Density	≈ 100–200 kg/m ³ (loose fill)
Fiber Length	6–12 mm (typical chopped fibers)
Dusting Potential	Moderate (avoid dry sweeping to limit dust)

10. STABILITY AND REACTIVITY**Chemical Stability:**

- Stable under normal handling, storage, and use conditions.

Conditions to Avoid:

- Avoid generation of excessive dust.
- Avoid prolonged exposure to temperatures above 200 °C, which may weaken fiber strength.

Incompatible Materials:

- Strong acids (e.g., hydrofluoric acid) can etch and damage glass fibers.
- Hydrofluoric acid in particular will dissolve silica.

Hazardous Decomposition Products:

- At temperatures > 1 200 °C, glass fibers may soften and fuse, potentially releasing low levels of silica fumes.
- Under fire conditions, decomposition products may include silicon oxides.

Hazardous Polymerization:

- Not applicable; glass fibers will not polymerize.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity:**

- **Oral:** LD₅₀ (rat) > 5 000 mg/kg (no significant toxicity expected)
- **Dermal:** LD₅₀ (rabbit) > 2 000 mg/kg (no significant toxicity expected)
- **Inhalation:** LC₅₀ not determined; dust/fiber inhalation may cause transient respiratory irritation but fibers are not respirable toxicants.

Skin Irritation:

- Mechanical irritation only; fibers may cause mild itching or redness that subsides when fibers are removed.

Eye Irritation:

- Fibers can cause mechanical eye irritation (redness, tearing); irritation resolves upon thorough rinsing.

Sensitization:

- Not a skin sensitizer (no known allergic potential).

Chronic Effects:

- Prolonged inhalation of respirable crystalline silica is hazardous; however, alkali-resistant glass fibers are designed to minimize release of respirable silica.
- No evidence of carcinogenicity, mutagenicity, or reproductive toxicity under normal use.

Medical Conditions Aggravated by Exposure:

- Individuals with pre-existing respiratory conditions may experience irritation from dust.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- Alkali-resistant glass fibers are inert and non-toxic to aquatic and terrestrial organisms.
- No acute or chronic toxicity data; fibers remain physically inert in the environment.

Persistence and Degradability:

- Glass fibers do not biodegrade under natural conditions.
- They will persist indefinitely as inert particulate material.

Bioaccumulation Potential:

- Negligible; glass fibers are insoluble and not taken up by organisms.

Mobility in Soil and Water:

- Insoluble in water; fibers will settle into sediment or soil.
- Unlikely to leach or migrate through groundwater.

Other Adverse Effects:

- Physical presence of fibers could contribute to micro-particulate load if not contained.
- Prevent uncontrolled release to minimize litter and accumulation in drainage systems.

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13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods:**

- Dispose of as inert solid waste in accordance with local, regional, and national regulations.
- Do not dispose into drains, sewers, or waterways.

Contaminated Packaging:

- Empty containers may retain product residue.
- Rinse containers with water and recycle if facilities exist; otherwise, dispose of as non-hazardous waste.

Special Precautions:

- Avoid creating dust during cleanup and disposal.
- Use appropriate personal protective equipment (see Section 8).

14. TRANSPORT INFORMATION**UN Number:**

- Not regulated (no UN number assigned for non-hazardous solid polymer fibers)

Proper Shipping Name:

- Not applicable

Transport Hazard Class(es):

- Not classified as dangerous goods under ADR/RID, IMDG, IATA

Packing Group:

- Not applicable

Environmental Hazards:

- No

Special Precautions for User:

- Handle in accordance with good industrial hygiene and safety practices
- Avoid creating dust clouds in enclosed spaces

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

- Not applicable

15. Regulatory Information

- **REACH / CLP (EU):** Compliant
- **OSHA HCS (USA):** Compliant
- **TSCA (USA):** All components listed
- **VOC Compliance:** Meets EU and US low-VOC regulations

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