

MSDS- VOGAFLEX S

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGAFLEX S**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGAFLEX S

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 **VOGAFLEX S****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **One-Component Polyurethane Sealant****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****Classification (GHS):**

Skin Irritation – Category 2

Eye Irritation – Category 2A

Respiratory Sensitization – Category 1

Specific Target Organ Toxicity (single exposure) – Category 3

Label Elements:☐ ☐ *Warning*

May cause an allergic skin reaction

Causes skin and eye irritation

May cause respiratory irritation

Precautionary Statements:

Use only outdoors or in a well-ventilated area

Wear protective gloves and eye protection

Avoid breathing vapors

3. COMPOSITION

Component	CAS No.	% by Weight	Component
Polyurethane prepolymer	Proprietary	%70–40	Polyurethane prepolymer
Silane-modified polymers	Proprietary	%30–15	Silane-modified polymers
Calcium carbonate (filler)	3-65-1317	%20–5	Calcium carbonate (filler)
Solvent naphtha (light)	8-89-64742	%5>	Solvent naphtha (light)

4. FIRST AID MEASURES

- **Inhalation:**
Move the person to fresh air. Keep them calm and in a position that helps breathing. If symptoms like coughing, dizziness, or shortness of breath occur, seek medical attention immediately.
- **Skin Contact:**
Remove any contaminated clothing. Wash the affected skin thoroughly with soap and water. If irritation or redness develops, or if symptoms persist, get medical attention.
- **Eye Contact:**
Rinse immediately with clean, lukewarm water for at least 15 minutes, keeping eyelids open. Remove contact lenses if present and easy to do. Get medical attention if irritation continues.
- **Ingestion:**
Do *not* induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek immediate medical advice.
- **Note to Physician:**
Treat symptomatically. Watch for signs of respiratory sensitization in exposed individuals.

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

- Dry chemical powder
- Carbon dioxide (CO₂)
- Alcohol-resistant foam
- Water spray (fog only; avoid direct stream)

Unsuitable Extinguishing Media:

- Do **not** use water jet, as it may spread the fire.

Specific Hazards Arising from the Product:

- Vapors may form explosive mixtures with air.
- In a fire, the product may release hazardous decomposition products such as:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides
 - Isocyanates

Protective Equipment and Precautions for Firefighters:

- Wear full protective gear including **self-contained breathing apparatus (SCBA)**.
- Keep containers cool by spraying with water to avoid pressure buildup and possible rupture.
- Fight fire from a safe distance and from upwind position.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

- Evacuate the spill area and keep unprotected personnel away.
- Ensure good ventilation.
- Avoid inhalation of vapors and prevent skin and eye contact.
- Wear appropriate **PPE**: gloves, protective clothing, goggles, and a respirator if required.
- Eliminate ignition sources — no smoking or open flames.

Environmental Precautions:

- Prevent the sealant from entering drains, watercourses, or soil.
- In case of large spills, notify relevant environmental authorities.

Methods for Containment and Cleaning Up:

- Stop the source of the leak if it is safe to do so.
- Contain the spill with **non-combustible absorbents** (e.g., sand, vermiculite).
- Scoop or scrape up the product and place it in a properly labeled waste container.
- Clean the residue with a mild detergent solution. Do **not** use solvents.
- Dispose of materials in accordance with local regulations.

7. HANDLING AND STORAGE**Handling:**

- Use only in **well-ventilated** areas.
- Avoid contact with skin and eyes.
- Do **not** breathe vapors or mist.
- Keep away from heat, sparks, flames, and other ignition sources.
- Wear appropriate **PPE** (gloves, goggles, protective clothing).
- Wash hands thoroughly after handling and before eating, drinking, or smoking.
- Ground/bond containers when transferring material to prevent static discharge.

Storage:

- Store in a **cool, dry, well-ventilated** area.
- Keep containers tightly closed when not in use.
- Keep away from **direct sunlight** and sources of heat or ignition.
- Recommended storage temperature: **+5°C to +35°C**.
- Protect from moisture, which may trigger curing inside the container.
- Do **not** store near food, beverages, or incompatible chemicals (oxidizers, acids, amines).

Shelf Life:

- Up to **12 months** in original unopened packaging under recommended storage conditions.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS No.	OSHA PEL
Solvent Naphtha (light)	8-89-64742	100 ppm (TWA)
Calcium Carbonate (dust)	3-65-1317	15 mg/m ³ (total)

- **Engineering Controls:**

Ensure adequate **local exhaust ventilation** or general air movement to keep vapor levels below limits.
Provide **eye wash stations** and safety showers near work areas.

- **Personal Protective Equipment (PPE):**

- **Respiratory Protection:**

Use a **NIOSH-approved organic vapor respirator** if ventilation is insufficient or during application in confined areas.

- **Skin Protection:**

Wear **chemical-resistant gloves** (e.g., nitrile, neoprene).

Use long-sleeved clothing to protect exposed skin.

- **Eye/Face Protection:**

Wear **safety goggles** or **face shield** when there is a risk of splashing.

- **General Hygiene Measures:**

Wash hands after handling and before eating or drinking.

Remove and wash contaminated clothing before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Smooth, self-leveling paste
Color	Gray (custom colors available)
Odor	Mild, solvent-like
Odor Threshold	Not determined
pH	Not applicable
Melting/Freezing Point	Not determined
Boiling Point	>150°C (for solvents)
Flash Point	>60°C (Closed Cup)
Evaporation Rate	Slower than n-butyl acetate
Flammability (solid/gas)	Not classified as flammable solid
Upper/Lower Flammability Limits	Not determined
Vapor Pressure	Low
Vapor Density	Heavier than air
Relative Density	~1.4 g/cm ³
Solubility in Water	Insoluble
Partition Coefficient (n-octanol/water)	Not available
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	High (self-leveling paste)
VOC Content	<50 g/L (low-VOC compliant)

10. STABILITY AND REACTIVITY**Reactivity:**

- Not reactive under recommended handling and storage conditions.

Chemical Stability:

- **Stable** under normal temperatures and pressures when stored and used as directed.
- Exposure to moisture can initiate curing and result in unwanted solidification in the container.

Possibility of Hazardous Reactions:

- Contact with water or humidity may release small amounts of carbon dioxide gas during curing.
- No dangerous polymerization expected under normal use.

Conditions to Avoid:

- Heat, open flames, sparks, or ignition sources
- Prolonged exposure to air or moisture
- Temperatures above **35°C** or below **5°C** during storage

Incompatible Materials:

- Strong oxidizing agents
- Acids and alkalis
- Isocyanate-reactive substances (e.g., alcohols, amines, water when uncured)

Hazardous Decomposition Products:

- Thermal decomposition may release:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides
 - Traces of isocyanates and other irritating gases

11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure:**

- Inhalation of vapors or mist
- Skin contact
- Eye contact
- Ingestion (accidental)

Acute Toxicity:

- **Inhalation:** May cause irritation to the respiratory tract (coughing, headache, dizziness).
- **Skin:** May cause irritation or sensitization after prolonged or repeated contact.
- **Eyes:** Causes irritation including redness, tearing, and discomfort.
- **Ingestion:** Low toxicity, but may cause nausea and gastrointestinal discomfort if swallowed.
- **Skin Corrosion/Irritation:**

Causes skin irritation; prolonged or repeated exposure may cause dermatitis.

- **Serious Eye Damage/Irritation:**

Causes eye irritation.

- **Respiratory or Skin Sensitization:**

May cause allergic skin reaction in sensitive individuals due to isocyanate traces.

Repeated inhalation may cause sensitization (asthma-like symptoms) in some cases.

- **Germ Cell Mutagenicity:**

No evidence of mutagenic effects.

- **Carcinogenicity:**

Not classified as carcinogenic by **IARC**, **NTP**, or **OSHA**.

- **Reproductive Toxicity:**

No reproductive or developmental toxicity observed under normal industrial use.

- **STOT – Single Exposure:**

May cause drowsiness or dizziness due to solvent vapors.

- **STOT – Repeated Exposure:**

Prolonged inhalation may affect the lungs or liver.

- **Aspiration Hazard:**

Not expected to present an aspiration hazard in normal use.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- Harmful to aquatic life with long-lasting effects.
- Contains components (e.g., solvent naphtha, polymers) that are **toxic to fish, algae, and invertebrates** in high concentrations.
- Avoid release to the environment.

Persistence and Degradability:

- Components such as polyurethane prepolymers and silane-modified polymers are **not readily biodegradable**.
- Product may persist in soil or water without significant breakdown.

Bioaccumulative Potential:

- Low for most components.
- Solvent naphtha may have some potential for **bioaccumulation** in aquatic organisms.

Mobility in Soil:

- Low water solubility limits mobility.
- Once cured, the product is generally **immobile** in soil and not expected to leach.

Other Adverse Effects:

- No known ozone depletion potential.
- Spills and runoff can contaminate water supplies if not properly contained.

13. DISPOSAL CONSIDERATIONS**Product Waste Disposal:**

- Dispose of in accordance with **local, regional, and national regulations**.
- Do **not** pour into drains, watercourses, or onto the ground.
- Cured material (fully reacted and solidified) may be handled as **non-hazardous industrial waste**, depending on local laws.
- Uncured or partially cured product should be treated as **hazardous waste**.

Contaminated Containers:

- **Do not reuse** empty containers.
- Containers may retain residues — handle with the same precautions as unused product.
- Empty containers should be punctured and disposed of through an approved waste handler.

Recommended Disposal Methods:

- Incineration under controlled conditions by a licensed waste disposal contractor is the preferred method for hazardous materials.
- Use appropriate labeling and transportation documentation when disposing of hazardous material.

Waste Code (Examples):

- **US (RCRA):** D001 (flammable, if applicable)
- **EU Waste Code:** 08 04 09* (waste adhesives and sealants containing organic solvents or other hazardous substances)

14. TRANSPORT INFORMATION

Transport Mode	Details
UN Number	Not regulated as hazardous material
Proper Shipping Name	Non-Regulated Material
Transport Hazard Class	Not classified
Packing Group	Not applicable
Label	None required
Marine Pollutant	No (unless specifically stated by ingredients)

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Additional Notes by Mode:**IMDG (Sea Transport):**

Not classified as dangerous goods.
No special precautions under normal shipping conditions.

IATA (Air Transport):

Not regulated as hazardous for air transport.
Package according to general cargo guidelines.

ADR/RID (Road/Rail Transport - EU):

No hazard identification number or transport classification required.
Use general precautions for moving liquid industrial chemicals.

Special Precautions for User:

Ensure containers are **securely sealed** and properly labeled.
Transport in **upright position** to prevent leakage.
Protect from **physical damage**, heat, and direct sunlight during shipment.

15. Regulatory Information**U.S. Regulations****OSHA (Occupational Safety and Health Administration):**

This product is considered **hazardous** under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification: Skin irritant, eye irritant, respiratory sensitizer.

TSCA (Toxic Substances Control Act):

All ingredients in this product are **listed** on or **exempt** from the TSCA inventory.

SARA Title III (EPCRA):

Section 311/312 Hazards: Immediate (acute) health hazard

Section 313: This product may contain trace levels of components (e.g., solvent naphtha) that are subject to reporting.

European Union (EU) Regulations**CLP Regulation (EC No 1272/2008):**

Classified and labeled in accordance with GHS (Globally Harmonized System).

Requires pictograms and safety phrases on packaging (e.g., irritant, environmental hazard).

REACH (EC No 1907/2006):

All raw materials used are **pre-registered or exempt**.

A Safety Assessment (CSA) may be available upon request.

Canada (WHMIS 2015):

Classified as a hazardous product under the Hazardous Products Regulation (HPR).

Requires bilingual SDS and labeling in accordance with GHS.

Other Global Inventories:

Australia (AICS): All components listed or compliant

Japan (ENCS): Compliant

China (IECSC): Compliant

South Korea (KECI): Compliant

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.