MSDS- VOGAPROOF PU

VOGEL SYSTEMS Safety data sheet
Date /Revised: 19.09.2022
Product: **MSDS- VOGAPROOF PU**

Version: 1.0

Date of print 20.09.2022

1.Identification

Product identifier

VOGAPROOF PU

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 **VOGAPROOF PU**

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

Identified uses **: Liquid Polyurethane Elastomeric Coating**

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
Skin Sensitization – Category 1
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory)
Label Elements:
Signal Word: *Warning*
Hazard Statements:
H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H335: May cause respiratory irritation
Precautionary Statements:
P261: Avoid breathing vapors/spray
P264: Wash hands and exposed skin thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves, clothing, and eye/face protection
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
P333+P313: If skin irritation or rash occurs: Get medical advice/attention
P337+P313: If eye irritation persists: Get medical advice/attention
Other Hazards:
Prolonged or repeated exposure may cause sensitization, especially with poor ventilation.
Vapors may form explosive mixtures with air in confined areas.

3. COMPOSITION

Component	CAS Number	% by Weight	Classification (GHS)
Polyurethane Prepolymer	Proprietary	%70–40	Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3
Xylene (Solvent)	7-20-1330	%20–10	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, STOT SE 3
Ethylbenzene (optional)	4-41-100	%5>	Flam. Liq. 2, Acute Tox. 4, Asp. Tox. 1
Additives, Fillers, Pigments	Proprietary	Balance	Not classified or not hazardous

Note:
- Ingredient identities marked as "Proprietary" are protected trade secrets and comply with regulatory disclosure requirements.
- Exact percentages may vary slightly depending on product formulation.

4. FIRST AID MEASURES

General Advice:
- Remove affected person from exposure.
- Show this Safety Data Sheet to medical personnel if needed.
- Do not allow affected individual to return to work until symptoms have resolved.

Inhalation:
- Move the person to fresh air immediately.
- Keep them calm and comfortable.
- If breathing difficulties or symptoms such as dizziness or headache persist, **seek medical attention**.

Skin Contact:
- Remove contaminated clothing and shoes immediately.
- Wash skin thoroughly with soap and water for at least **15 minutes**.
- If irritation, rash, or redness develops, **consult a physician**.
- Launder clothing before reuse.

Eye Contact:
- Rinse eyes cautiously with clean, lukewarm water for at least **15 minutes**, holding eyelids open.
- Remove contact lenses if present and easy to do.
- Continue rinsing and seek **immediate medical attention** if irritation persists.

Ingestion:
- **Do not induce vomiting**.
- Rinse mouth with water if conscious.
- Never give anything by mouth to an unconscious person.
- Seek **immediate medical assistance**.

Most Important Symptoms/Effects (Acute and Delayed):
- **Skin contact:** Redness, irritation, or allergic rash (sensitization)
- **Inhalation:** Headache, dizziness, irritation to nose or throat
- **Eye contact:** Burning, redness, watering
- **Delayed effects:** Repeated exposure may lead to allergic skin reactions or respiratory sensitivity

Advice to Physicians:
- Treat symptomatically.
- Monitor for signs of respiratory sensitization or allergic skin reactions.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
- Carbon dioxide (CO_2)
- Dry chemical powder
- Alcohol-resistant foam
- Water spray (fog only)

Unsuitable Extinguishing Media:
- **Do not use a water jet**, as it may spread the burning liquid or create a splash hazard.

Specific Hazards Arising from the Substance:
- **Flammable liquid and vapor**
- In the event of fire, may emit hazardous decomposition products such as:
  Carbon monoxide (CO)
  Carbon dioxide (CO_2)
  Isocyanates
  Nitrogen oxides
  Irritating organic vapors

Special Protective Equipment and Firefighting Instructions:
- Wear full **fire-resistant protective clothing** and **self-contained breathing apparatus (SCBA)**.
- Fight fire from a **safe distance and upwind position**.
- Use water spray to cool containers exposed to fire and prevent pressure build-up or explosion.
- Prevent run-off from entering sewers, drains, or watercourses.

Explosion Risk:
- Vapors may form explosive mixtures with air, particularly in unventilated or confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:
- Evacuate unnecessary personnel from the area.
- Ensure adequate ventilation.
- Avoid breathing vapors and prevent skin or eye contact.
- Eliminate all ignition sources — **no smoking, sparks, or open flames**.
- Use appropriate **Personal Protective Equipment (PPE)**: chemical-resistant gloves, goggles, and respirator (if needed).

Environmental Precautions:
- Prevent the product from entering **drains, sewers, surface water, or soil**.
- If environmental contamination occurs, notify relevant local authorities immediately.

Methods and Materials for Containment and Cleaning Up:
- **Small Spills:**
  Absorb with **inert material** (e.g., sand, earth, vermiculite).
  Scoop into labeled containers for proper disposal.
- **Large Spills:**
  Dike the area to prevent spreading.
  Collect using non-sparking tools and transfer to suitable containers.
  Wash spill area with detergent and water after cleanup.
  Do **not** use solvents for cleaning residue.
- **Disposal:**
  Dispose of contaminated materials according to local, national, or regional regulations.
  See Section 13 for disposal guidance.

7. HANDLING AND STORAGE

- **Precautions for Safe Handling:**

Handle in a **well-ventilated** area to avoid vapor accumulation.
Avoid breathing vapors, mist, or spray.
Prevent contact with skin, eyes, and clothing.
Do not eat, drink, or smoke while handling the product.
Wear appropriate **PPE** (gloves, goggles, protective clothing).
Keep containers tightly closed when not in use.
Ground all equipment during material transfer to prevent static discharge.
Use non-sparking tools and explosion-proof equipment.

- **Conditions for Safe Storage:**

Store in a **cool, dry, well-ventilated** place, away from sources of heat, sparks, open flames, and direct sunlight.
Keep containers tightly sealed and upright.
Recommended storage temperature: **5°C to 35°C**
Protect from **moisture**, as it may lead to unwanted curing inside the container.
Store away from incompatible materials such as strong oxidizers, acids, and amines.

- **Other Considerations:**

Keep out of reach of children.
Store in original containers only.
Label storage area with appropriate hazard warnings.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS No.	OSHA PEL
Xylene	7-20-1330	100 ppm (TWA)
Ethylbenzene	4-41-100	100 ppm (TWA)
Polyurethane Prepolymer	Proprietary	Not established

Engineering Controls:

- Use **local exhaust ventilation** to maintain airborne concentrations below exposure limits.
- Ensure **general ventilation** is adequate in confined or enclosed spaces.
- Install **eyewash stations** and **safety showers** near the work area.

Personal Protective Equipment (PPE):

- **Respiratory Protection:**
  Use a **NIOSH-approved organic vapor respirator** in poorly ventilated or enclosed areas.
  Use SCBA for large spills or confined space work.
- **Skin Protection:**
  Wear **chemical-resistant gloves** (e.g., nitrile, butyl rubber).
  Use **long sleeves, coveralls**, or protective suits to avoid skin contact.
- **Eye/Face Protection:**
  Wear **chemical safety goggles** or a **face shield** where splashing is possible.
- **Hygiene Measures:**
  Wash hands thoroughly after handling.
  Remove contaminated clothing and wash before reuse.
  Avoid wearing contaminated PPE or work clothes outside the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Thick, colored liquid (gray, white, etc.)
Odor	Mild solvent-like odor
Odor Threshold	Not determined
pH	Not applicable (non-aqueous)
Melting/Freezing Point	Not determined
Initial Boiling Point & Range	>100°C (for solvent components)
Flash Point	>25°C (closed cup)
Evaporation Rate	Slower than butyl acetate
Flammability	Flammable liquid and vapor
Upper/Lower Flammability Limits	Not determined
Vapor Pressure	Low
Vapor Density	Heavier than air
Relative Density	~1.3 g/cm³
Solubility in Water	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	High (thixotropic, brush/roller applied)
VOC Content	<100 g/L (low-VOC compliant)

10. STABILITY AND REACTIVITY

- **Reactivity:**

Product is **not reactive** under normal conditions of storage and use.
Moisture can initiate curing of the product.

- **Chemical Stability:**

Stable under recommended storage conditions (cool, dry, well-ventilated).
Exposure to air or moisture can begin curing process in opened containers.

- **Possibility of Hazardous Reactions:**

No hazardous polymerization under normal use.
Reaction with water or alcohols may release CO_2 gas, which can cause pressure build-up in sealed containers.

- **Conditions to Avoid:**

Heat, flames, sparks, and other ignition sources
Prolonged exposure to air and moisture
Temperatures above 35°C or below 5°C

- **Incompatible Materials:**

Strong oxidizing agents (e.g., hydrogen peroxide, bleach)
Strong acids and bases
Alcohols and amines (may interfere with curing)

- **Hazardous Decomposition Products:**

Upon combustion or thermal decomposition:

Carbon monoxide (CO)
Carbon dioxide (CO_2)
Nitrogen oxides (NO_x)
Isocyanates
Other irritating organic vapors

11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:**

Inhalation: May cause irritation of the respiratory tract, coughing, dizziness, or headache.
Skin Contact: Causes irritation; may cause allergic skin reaction (sensitization) in some individuals.
Eye Contact: Causes moderate to severe eye irritation, tearing, and discomfort.
Ingestion: Harmful if swallowed; may cause nausea, vomiting, and gastrointestinal upset.

- **Skin Corrosion/Irritation:**

Classified as **Skin Irritant – Category 2**. Prolonged or repeated exposure may result in redness, dryness, or dermatitis.

- **Serious Eye Damage/Irritation:**

Classified as **Eye Irritant – Category 2A**. Can cause visible irritation, especially in unprotected exposure.

- **Respiratory or Skin Sensitization:**

May cause **allergic skin reactions** after repeated contact.
Inhalation of isocyanate-containing vapors (if present) may lead to **respiratory sensitization** (asthma-like symptoms) in sensitized individuals.

- **Germ Cell Mutagenicity:**

Not classified as mutagenic based on available data.

- **Carcinogenicity:**

Xylene and **Ethylbenzene** are **not classified as carcinogenic** by OSHA or IARC at product-level exposures.
Ethylbenzene is classified as possibly carcinogenic (Group 2B) by IARC, but exposure levels in this formulation are typically below concern.

- **STOT – Single Exposure:**

May cause **drowsiness or dizziness** (STOT SE Category 3) due to solvent vapors.

- **STOT – Repeated Exposure:**

Prolonged exposure to high concentrations may affect **liver, kidneys, or central nervous system**.

- **Aspiration Hazard:**

Components like xylene may present a **low aspiration hazard** if swallowed improperly.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:**

Harmful to aquatic life.
Contains organic solvents (e.g., xylene, ethylbenzene) that can cause long-term damage to aquatic organisms.
Avoid release into the environment, especially water bodies.

- **Persistence and Degradability:**

Product components such as **polyurethane prepolymers** are **not readily biodegradable**.
Once cured, the material forms a durable film that resists environmental degradation.

- **Bioaccumulative Potential:**

Certain solvent components (e.g., **xylene**, **ethylbenzene**) have **potential to bioaccumulate** in aquatic species.
However, when fully cured, the product is not expected to release these substances readily.

- **Mobility in Soil:**

Uncured product: May migrate through porous soil and contaminate groundwater.
Cured product: Generally immobile and stable in soil.

- **Other Adverse Effects:**

No known effects on the ozone layer or global warming.
Always manage and dispose of waste responsibly to minimize ecological impact.

13. DISPOSAL CONSIDERATIONS

- **Product Disposal:**

Dispose of contents and container in accordance with **local, regional, national, and international regulations**.
Do **not pour into drains, soil, or watercourses**.
Unused or uncured product should be handled as **hazardous waste**.

- **Cured Material:**

Once fully cured, the product becomes an inert solid and may be disposed of as **non-hazardous construction waste**, depending on local legislation.

- **Disposal Methods:**

Preferred method: Incineration under controlled conditions by a licensed hazardous waste contractor.
Do not attempt open burning.
Do not allow residue to enter storm drains or public waterways.

- **Packaging Disposal:**

Do not reuse empty containers.
Containers may retain residues — handle as hazardous.
Rinse and dispose of only if permitted by local authorities, otherwise treat as chemical waste.

- **Waste Codes (Examples):**
- **U.S. (RCRA):**

    D001 (flammable waste), if solvent-containing

- **EU Waste Code:**

    08 04 09* – Waste adhesives and sealants containing organic solvents or other dangerous substances

14. TRANSPORT INFORMATION

Transport Mode	**Information**
UN Number	**1263**
Proper Shipping Name	Paint or Paint Related Material
Transport Hazard Class	3 – Flammable Liquid
Packing Group	III
Marine Pollutant	No (unless specifically formulated as such)

Transport by Sea (IMDG):
UN 1263, Class 3, Packing Group III
Label: Flammable Liquid
EmS: F-E, S-E
Not classified as a marine pollutant (unless modified)
Transport by Air (IATA):
UN 1263, Class 3, PG III
Follow packaging instructions for flammable liquids
Use approved packaging and labeling
Land Transport (ADR/RID):
UN 1263, Class 3, PG III
Label with appropriate flammable hazard symbols
Ensure containers are tightly sealed and upright
Special Precautions for Transport:
Keep away from heat, sparks, open flames, and direct sunlight.
Ensure containers are properly labeled and secured.
Transport in upright position to prevent leakage.
Verify that all containers comply with the transport regulations of the destination country.

15. Regulatory Information

U.S. Regulations
OSHA (Hazard Communication Standard, 29 CFR 1910.1200):
This product is classified as **hazardous** (Flammable, Skin/Eye Irritant, STOT SE 3, Sensitizer).
Requires labeling and SDS compliance.
TSCA (Toxic Substances Control Act):
All components are either **listed** on or **exempt** from the TSCA Inventory.
SARA Title III (EPCRA):
Section 311/312: Fire Hazard, Immediate Health Hazard
Section 313: Contains **Xylene** and **Ethylbenzene**, which may be subject to annual reporting.
European Union (EU) Regulations
CLP Regulation (EC) No 1272/2008:
Product is classified and labeled under the GHS/CLP framework.
Requires appropriate hazard pictograms and signal words.
REACH Regulation (EC 1907/2006):
All relevant substances are either **pre-registered, registered, or exempt**.
No SVHCs (Substances of Very High Concern) intentionally included.
Canada:
WHMIS 2015 / HPR:
Classified as a hazardous product.
Requires bilingual SDS and compliant workplace labels.
Other Global Inventories:
Australia (AICS), Japan (ENCS), Korea (KECI), China (IECSC):
All ingredients are **listed** or compliant with applicable national inventories.

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