

MSDS- VogaProof PVC-H20

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VogaProof PVC-H20**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VogaProof PVC-H20

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 **VogaProof PVC-H20**

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

Identified uses : **High performance waterproofing membrane & liner**

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):**

Flammable Liquid – Category 3 (if solvent-based)

Skin Irritation – Category 2

Eye Irritation – Category 2A

Specific Target Organ Toxicity – Single Exposure (STOT SE) – Category 3

Respiratory Sensitization – Category 1 (if isocyanates or sensitizers present)

Signal Word: ☐ ☐ **Danger**

Hazard Statements:

H226: Flammable liquid and vapor

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements:

P210: Keep away from heat, sparks, open flames, and hot surfaces — No smoking

P261: Avoid breathing vapors or spray mist

P280: Wear protective gloves, clothing, and eye protection

P271: Use only outdoors or in a well-ventilated area

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

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

P337 + P313: If eye irritation persists: Get medical advice/attention

P501: Dispose of contents/container in accordance with local regulations

Other Hazards:

Vapors may form explosive mixtures with air in confined or poorly ventilated areas

Prolonged or repeated exposure may cause respiratory sensitization

Cured product is generally non-hazardous

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3. COMPOSITION

Component	CAS Number	% by Weight	Classification (GHS)
Polymer resin or bitumen base	Proprietary	%80–50	Not classified or varies by formulation
Xylene	7-20-1330	%20–5	Flam. Liq. 3, Skin Irrit. 2, STOT SE 3
Toluene	3-88-108	%10>	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3
Additives and plasticizers	Various	Balance	Varies

4. FIRST AID MEASURES**General Advice:**

- Remove the person from exposure.
- Seek medical attention if symptoms occur or persist.

Inhalation:

- Move to fresh air immediately.
- If breathing is difficult, provide oxygen and seek medical help.
- Monitor for delayed respiratory symptoms.

Skin Contact:

- Remove contaminated clothing.
- Wash affected area thoroughly with soap and water.

Eye Contact:

- Rinse cautiously with water for at least 15 minutes.
- Remove contact lenses if present and easy to do.
- Get immediate medical attention.

Ingestion:

- Do not induce vomiting.
- Rinse mouth with water.
- Seek immediate medical assistance.

Most Important Symptoms and Effects:

- Skin irritation, redness, or rash
- Eye irritation, redness, tearing
- Respiratory irritation, coughing, or difficulty breathing

Advice for Physicians:

- Treat symptomatically.
- Monitor for delayed respiratory sensitization.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

- Foam (alcohol-resistant)
- Dry chemical powder
- Carbon dioxide (CO₂)
- Water spray (to cool containers)

Unsuitable Extinguishing Media:

- Direct water jet (may spread fire)

Specific Hazards Arising from the Product:

- Flammable liquid and vapor (if solvent-based)
- Vapors may form explosive mixtures with air
- Containers may rupture when heated
- Combustion produces hazardous gases including:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
 - Isocyanates (if present)
 - Other toxic or irritating vapors

Protective Equipment for Firefighters:

- Wear full protective clothing and self-contained breathing apparatus (SCBA)
- Fight fire from a safe distance and upwind
- Cool containers with water spray to prevent explosion

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

- Evacuate non-essential personnel.
- Avoid breathing vapors.
- Ensure adequate ventilation.
- Eliminate ignition sources—no smoking, sparks, or flames.
- Wear appropriate protective equipment: chemical-resistant gloves, goggles, and protective clothing.

Environmental Precautions:

- Prevent product from entering drains, waterways, or soil.
- Notify local authorities if environmental contamination occurs.

Methods and Materials for Containment and Cleaning Up:

- Contain the spill using inert materials such as sand, earth, or vermiculite.
- Collect absorbed material into suitable labeled containers for disposal.
- Clean residue with detergent and water—avoid solvents.
- Ventilate the area thoroughly to disperse vapors.

Disposal:

- Dispose of waste in accordance with local regulations (see Section 13).
- Do not release into the environment.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

- Use only in well-ventilated areas.
- Avoid inhalation of vapors and contact with skin or eyes.
- Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- Use non-sparking tools and ensure proper grounding.
- Wear appropriate personal protective equipment (PPE).
- Avoid moisture contamination if product is moisture-sensitive.

Conditions for Safe Storage:

- Store in tightly closed containers in a cool, dry, well-ventilated area.
- Recommended storage temperature: 5°C to 35°C.
- Protect from freezing and direct sunlight.
- Keep away from incompatible materials such as oxidizers, acids, and alkalis.

Other Information:

- Store separately from food, beverages, and incompatible chemicals.
- Follow FIFO (first in, first out) inventory practices.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS Number	OSHA PEL
Xylene	7-20-1330	100 ppm (TWA)
Toluene	3-88-108	200 ppm (TWA)

Engineering Controls:

- Use adequate ventilation, preferably local exhaust ventilation, to maintain exposures below OELs.
- Use explosion-proof electrical and ventilation equipment in flammable areas.
- Provide access to emergency eyewash stations and safety showers.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use NIOSH-approved respirator with organic vapor cartridges if ventilation is inadequate.
- **Eye Protection:** Safety goggles or face shield to protect against splashes.
- **Skin Protection:** Chemical-resistant gloves (nitrile or butyl rubber), protective clothing to avoid skin contact.

Hygiene Measures:

- Wash hands and face thoroughly after handling.
- Remove contaminated clothing and wash before reuse.
- Do not eat, drink, or smoke in work areas.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	colored flexible membrane
Odor	mild polymer odor
Odor Threshold	Not determined
pH	Not applicable (non-aqueous)
Melting/Freezing Point	Not determined
Initial Boiling Point/Range	>100°C (varies with solvent)
Flash Point	>30°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	Approximately 1.0–1.3 g/cm ³
Solubility	Insoluble in water
Partition Coefficient (log K _{ow})	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Viscous to semi-solid (depends on product)
VOC Content	Variable, typically <300 g/L

10. STABILITY AND REACTIVITY

Reactivity:

- Generally stable under recommended storage and handling conditions.
- Some products may be **moisture reactive**, leading to curing or polymerization.

Chemical Stability:

- Stable when stored in original sealed containers away from heat and moisture.
- Avoid prolonged exposure to temperatures above recommended storage limits.

Possibility of Hazardous Reactions:

- Reaction with moisture, strong oxidizers, acids, or bases may cause hazardous conditions.
- Avoid mixing with incompatible substances.

Conditions to Avoid:

- Excessive heat, open flames, sparks
- Contact with moisture or water (if moisture-curing)
- Exposure to incompatible materials

Incompatible Materials:

- Strong oxidizing agents
- Acids and bases
- Water and moisture (for moisture-curing products)

Hazardous Decomposition Products:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)
- Hydrogen cyanide (HCN) (in some cases)
- Isocyanate vapors (if applicable)
- Other toxic organic vapors

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

- Inhalation of vapors or aerosols
- Skin contact with uncured product
- Eye contact from splashes or fumes
- Ingestion (accidental)

Acute Toxicity:

- **Inhalation:** Vapors may cause respiratory irritation, dizziness, headache, and nausea.
- **Skin Contact:** May cause irritation, redness, and allergic dermatitis with prolonged exposure.
- **Eye Contact:** Causes irritation, redness, and watering.
- **Ingestion:** May cause gastrointestinal irritation, nausea, or vomiting.

Skin Corrosion/Irritation:

- Causes skin irritation; prolonged or repeated contact may lead to dermatitis.

Serious Eye Damage/Irritation:

- Causes eye irritation, conjunctivitis.

Respiratory or Skin Sensitization:

- May cause allergic skin reactions and respiratory sensitization (especially with isocyanate-containing formulations).

Carcinogenicity:

- No components classified as carcinogenic at typical occupational exposure levels.

Mutagenicity:

- Not considered mutagenic.

Reproductive Toxicity:

- No data indicating reproductive hazards under normal use.

Specific Target Organ Toxicity (STOT):

- Single exposure may cause respiratory irritation.
- Repeated exposure may cause sensitization and respiratory problems.

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- The uncured product is **toxic to aquatic organisms**, potentially causing long-term adverse effects in aquatic environments.
- Solvent components may contribute to aquatic toxicity.

Persistence and Degradability:

- The polymer and additives are **not readily biodegradable**.
- Once cured, the membrane becomes an **inert, stable solid** with minimal environmental impact.

Bioaccumulative Potential:

- Solvent ingredients may have potential for bioaccumulation, but the cured product is unlikely to bioaccumulate.

Mobility in Soil:

- Uncured product may migrate through soil and contaminate groundwater.
- Cured membrane is immobile and chemically stable.

Other Adverse Effects:

- No known ozone depletion or global warming potential.
- Avoid uncontrolled release to the environment.

13. DISPOSAL CONSIDERATIONS**Product Disposal:**

- Dispose of **uncured or liquid material** as hazardous waste following local, regional, and national regulations.
- Avoid release to sewage, water bodies, or soil.
- Preferred disposal methods include incineration at licensed facilities.

Cured Material:

- Cured membrane is generally considered **non-hazardous solid waste** and may be disposed of in landfills or construction waste sites according to local laws.

Packaging Disposal:

- Do not reuse containers.
- Dispose of empty containers as hazardous waste unless cleaned per regulations.
- Follow local rules for rinsing or disposal.

Waste Codes (Examples):

- **US RCRA:** D001 (Ignitable waste if uncured solvents present)
- **EU Waste Codes:** 08 04 09* (Waste adhesives and sealants containing organic solvents)

14. TRANSPORT INFORMATION

Parameter	Details
UN Number	1263
Proper Shipping Name	Paint or Paint Related Material
Hazard Class	3 (Flammable Liquid)
Packing Group	III
Marine Pollutant	No

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Transport Modes:

- **Road/Rail (ADR/RID):**
UN 1263, Class 3, PG III
Tunnel Restriction Code: D/E
- **Sea Transport (IMDG):**
UN 1263, Class 3, PG III
EmS Codes: F-E, S-E
Not classified as marine pollutant
- **Air Transport (IATA/ICAO):**
UN 1263, Class 3, PG III
Packaging per IATA Dangerous Goods Regulations

Special Precautions:

- Keep containers sealed and upright.
- Protect from heat, sparks, and moisture.
- Segregate from incompatible substances during transport.

15. Regulatory Information**United States:****OSHA Hazard Communication Standard (29 CFR 1910.1200):**

This product is classified as **hazardous** due to flammability and health hazards.

Toxic Substances Control Act (TSCA):

All components are either listed on or exempt from the TSCA inventory.

SARA Title III (EPCRA):

Sections 311/312: Fire hazard, acute health hazard, chronic health hazard

Section 313: Contains reportable substances such as xylene and toluene (if present).

European Union:**REACH Regulation (EC 1907/2006):**

Ingredients are registered or exempt.

CLP Regulation (EC 1272/2008):

Product is classified and labeled in accordance with GHS criteria.

Canada:**WHMIS 2015:**

Product is classified as hazardous and requires appropriate labeling.

Other International Regulations:

Ingredients comply with inventories such as AICS (Australia), IECSC (China), ENCS (Japan), KECI (Korea), and PICCS (Philippines).

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