

MSDS- VOGASPORT PU

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGASPORT PU**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGASPORT 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

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1. Product identifier**Product name **VOGASPORT PU****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **ONE-COMPONENT POLYURETHANE PRIMER/BINDER**Details of the supplier of the safety data sheetSupplier

Company name : Vogel co.

E-mail address: info@vogel-systems.de**2. COMPOSITION/INFORMATION ON INGREDIENTS****GHS Classification:****Flammable Liquid** – Category 3**Skin Irritation** – Category 2**Eye Irritation** – Category 2A**Respiratory Sensitization** – Category 1**Specific Target Organ Toxicity – Single Exposure (STOT SE)** – Category 3 (respiratory tract irritation)**Signal Word:** ☐ ☐ **Danger****Hazard Statements:****H226:** Flammable liquid and vapor**H315:** Causes skin irritation**H319:** Causes serious eye irritation**H334:** May cause allergy or asthma symptoms or breathing difficulties if inhaled**H335:** May cause respiratory irritation**Precautionary Statements:****P210:** Keep away from heat, hot surfaces, sparks, open flames — No smoking**P261:** Avoid breathing vapors, mist, or spray**P280:** Wear protective gloves/protective clothing/eye protection/face 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/regional/national/international regulations**Other Hazards:**

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

Prolonged or repeated exposure to isocyanates may result in **respiratory sensitization or occupational asthma**

Inhalation of vapor may cause dizziness, headache, and irritation

3. COMPOSITION

Substance	CAS Number	% by Weight	Classification (GHS)
Polyurethane Prepolymer	Proprietary	%70–50	Skin Irrit. 2, Eye Irrit. 2A, Resp. Sens. 1, STOT SE 3
Xylene (Aromatic Hydrocarbon Solvent)	7-20-1330	%40–20	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, STOT SE 3
Additives / Stabilizers	Proprietary	Balance	Not classified or withheld as trade secret (non-hazardous)

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

- Remove the affected individual from the source of exposure.
- Seek medical attention if symptoms develop or persist.
- Show this SDS to the physician or emergency personnel.

Inhalation:

- Move the person to **fresh air** immediately.
- Keep them in a position comfortable for breathing.
- If breathing is difficult or symptoms such as coughing, wheezing, or dizziness occur:
 - **Seek medical attention immediately.**
- Monitor for **delayed respiratory symptoms**, especially after exposure to isocyanate vapors.

Skin Contact:

- Remove contaminated clothing and footwear.
- Immediately wash skin with **soap and water** for at least **15 minutes**.
- **Do not use solvents or thinners** to clean skin.
- If irritation or rash develops, **get medical attention**.

Eye Contact:

- Rinse cautiously with **clean water** for at least **15 minutes**, keeping eyelids open.
- Remove contact lenses if present and easy to do.
- Continue rinsing and **seek immediate medical attention**.

Ingestion:

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

Most Important Symptoms and Effects (Acute and Delayed):

- **Skin contact:** Redness, dryness, itching, or allergic rash
- **Eye contact:** Burning, stinging, watering, redness
- **Inhalation:** Irritation of nose and throat, coughing, difficulty breathing
- **Delayed effects:** **Respiratory sensitization** possible with prolonged or repeated exposure to isocyanates

Advice to Physicians:

- Treat symptomatically.

Monitor for **asthma-like symptoms** following exposure to isocyanate vapors, even if initial symptoms are mild.

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

- **Foam** (alcohol-resistant)
- **Dry chemical powder**
- **Carbon dioxide (CO₂)**
- **Water spray** (for cooling, not direct jet application)

Unsuitable Extinguishing Media:

- **Water jet** – may spread flammable liquid or create splash hazards.

Specific Hazards Arising from the Product:

- **Flammable liquid and vapor.**
- Vapors may form **explosive mixtures** with air, particularly in unventilated areas.
- Containers may **rupture under fire conditions** due to pressure build-up from heat.
- Combustion may release **toxic gases**, including:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)
 - Nitrogen oxides (NO_x)
 - Hydrogen cyanide (HCN)
 - Isocyanate vapors
 - Other irritating organic compounds

Special Firefighting Procedures:

- Fight fire from a **safe distance** and **upwind**.
- Use water spray to **cool containers** exposed to heat or flames.
- Prevent run-off from entering drains, sewers, or waterways.

Protective Equipment for Firefighters:

- Wear full **protective clothing** and **self-contained breathing apparatus (SCBA)** with positive pressure.
- Avoid inhalation of combustion byproducts and **ventilate the area** after extinguishing the fire.

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment, and Emergency Procedures:**

- Evacuate the area of non-essential personnel.
- Ensure **adequate ventilation** and eliminate all **ignition sources** (no smoking, open flames, or sparks).
- Avoid breathing vapors and prevent skin or eye contact.

Wear appropriate PPE:

- Chemical-resistant gloves
- Protective goggles or face shield
- Long-sleeve coveralls

Environmental Precautions:

- **Prevent entry into drains, watercourses, or soil.**
- If contamination of water or soil occurs, **notify appropriate authorities** immediately.

Methods and Materials for Containment and Cleaning Up:

- **Contain the Spill:**
 - Dike or contain the spill area with **non-combustible, inert material** (e.g., sand, earth, or vermiculite).
- **Absorb and Collect:**
 - Use absorbent material to soak up the liquid.
 - Scoop or shovel absorbed material into a **suitable, labeled container** for disposal.
- **Clean the Area:**
 - Clean residues with a detergent solution and water.
 - Do **not use solvents**, as this may increase vapor hazards or react with the product.

Disposal:

- Dispose of spill residues and contaminated materials in accordance with **local, regional, and national regulations**.
- See **Section 13** for complete disposal guidance.

7. HANDLING AND STORAGE**Precautions for Safe Handling:**

- Use only in **well-ventilated** areas or with **local exhaust** systems to prevent vapor buildup.
- Avoid **inhalation** of vapors and **contact** with skin, eyes, and clothing.
- Do not eat, drink, or smoke while handling the product.
- **Keep away from heat, sparks, open flames, and hot surfaces** — No smoking.
- Use **non-sparking tools** and ground all transfer equipment.
- Open containers carefully — may be pressurized from reaction with moisture.
- Wear appropriate **PPE** (see Section 8).
- Prevent contamination with **moisture**, which may initiate unwanted curing or release CO₂ gas.

Conditions for Safe Storage, Including Any Incompatibilities:

- Store in original, **tightly closed containers**, upright and properly labeled.
- Store in a **cool, dry, and well-ventilated** place.
- **Recommended storage temperature:** +5°C to +35°C

Keep away from:

Ignition sources (sparks, flames, heat)**Moisture and water****Strong acids, bases, oxidizing agents, amines, and alcohols****Additional Notes:**

- Protect containers from **physical damage and freezing**.
- Store separately from foodstuffs and incompatible materials.
- Rotate stock to use oldest material first (FIFO method).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS No.	OSHA PEL
Xylene	7-20-1330	100 ppm (TWA)
Polymeric Isocyanates	Proprietary	Not established

Engineering Controls:

- Use **local exhaust ventilation** to maintain airborne levels below applicable exposure limits.
- Ensure **general area ventilation** is sufficient, especially in enclosed or confined spaces.
- Use **explosion-proof ventilation** and **electrically bonded equipment** in flammable areas.
- Provide access to **eyewash stations** and **emergency showers** near work zones.

Personal Protective Equipment (PPE):

- **Respiratory Protection:**
Use a **NIOSH-approved organic vapor respirator** when exposure to vapors is likely.
In poorly ventilated areas or for spray application, use an **air-supplied or full-face respirator**.
- **Eye/Face Protection:**
Wear **chemical splash goggles**.
For high-risk activities, consider using a **face shield** in addition to goggles.
- **Skin Protection:**
Wear **chemical-resistant gloves** (e.g., nitrile, butyl rubber).
Use **long sleeves, coveralls, or apron** to prevent skin exposure.
- **Hygiene Measures:**
Wash hands thoroughly after handling.
Do not reuse contaminated clothing until thoroughly cleaned.
Remove contaminated PPE before entering eating or break areas.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Amber liquid
Odor	Mild solvent-like
Odor Threshold	Not determined
pH	Not applicable (non-aqueous)
Melting/Freezing Point	Not determined
Initial Boiling Point and Range	>100°C (depends on 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 (20°C)	~1.2 g/cm ³
Solubility in Water	Insoluble – reacts with water to cure
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Medium to high (brushable or rollable liquid)
VOC Content	<150 g/L (compliant with low-VOC standards)

10. STABILITY AND REACTIVITY**Reactivity:**

- Product is **moisture-reactive** — contact with water or humid air will initiate curing.
- Reaction with water may release **carbon dioxide (CO₂)** gas, which can cause **pressure build-up** in closed containers.

Chemical Stability:

- **Stable** under normal storage and handling conditions.
- Shelf life may decrease with prolonged exposure to air or elevated temperature.

Possibility of Hazardous Reactions:

- Exothermic curing reaction with water, alcohols, or amines.
- Vapors may form **explosive mixtures** with air in poorly ventilated areas.
- **No hazardous polymerization** expected under normal use.

Conditions to Avoid:

- Heat, open flames, and sparks
- Exposure to moisture or humidity
- Prolonged storage above 35°C or below 5°C

Incompatible Materials:

- Water (triggers curing)
- Alcohols and amines (accelerate reaction)
- Strong acids or bases

Hazardous Decomposition Products:

- When heated to decomposition or during combustion, may release:
 - Carbon monoxide (CO)**
 - Carbon dioxide (CO₂)**
 - Nitrogen oxides (NO_x)**
 - Hydrogen cyanide (HCN)**
 - Isocyanate vapors**

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

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

Acute Toxicity:

- **Inhalation:**
Vapors may cause **respiratory irritation**, dizziness, headache, nausea.
Isocyanate-containing vapors may lead to **asthma-like symptoms** in sensitized individuals.
- **Skin Contact:**
Causes **skin irritation**. May cause **allergic skin reactions** with repeated contact.
- **Eye Contact:**
Causes **moderate to severe irritation** — tearing, redness, stinging.
- **Ingestion:**
Harmful if swallowed. May cause irritation to the mouth, throat, and gastrointestinal tract.

Skin Corrosion/Irritation:

- **Category 2:** Causes irritation with redness or dryness.
- **Serious Eye Damage/Irritation:**
- **Category 2A:** Causes noticeable discomfort and conjunctival redness.
- **Respiratory or Skin Sensitization:**
- **Category 1:**
May cause **allergic skin reactions** (dermatitis)
Inhalation of isocyanates may cause **respiratory sensitization** (e.g. asthma, wheezing)

Aspiration Hazard:

- May present a low aspiration risk if ingested and enters the airway (due to solvent content).

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- The uncured product is **toxic to aquatic organisms**, including fish and invertebrates.
- Solvent components can cause **long-term adverse effects** in aquatic environments.

Persistence and Degradability:

- The polyurethane prepolymer and additives are **not readily biodegradable**.
- Upon curing, the product forms a **stable, inert solid** that is resistant to environmental breakdown.

Bioaccumulative Potential:

- Solvent components (such as xylene) may have **moderate potential to bioaccumulate** in aquatic organisms.
- The cured material is not expected to bioaccumulate.

Mobility in Soil:

- Uncured liquid may have **moderate mobility** in soil and potential to contaminate groundwater.
- Cured product is **immobile** and chemically stable.

Other Adverse Effects:

- No known effects on ozone depletion or global warming.
- Avoid release to the environment.
- Dispose of waste and residues properly to minimize ecological impact.

13. DISPOSAL CONSIDERATIONS**Product Disposal:**

- Dispose of **uncured material** as **hazardous waste** according to local, regional, or national regulations.
- Do **not** pour into drains, water bodies, or onto soil.
- Preferred disposal method is **incineration in a licensed hazardous waste facility**.

Cured Material:

- Fully cured product is chemically inert and may be disposed of as **non-hazardous solid waste**, subject to local laws.
- Ensure material is completely cured before disposal.

Packaging Disposal:

- Do **not** reuse empty containers.
- Containers may contain hazardous residues; dispose of as hazardous waste unless cleaned per regulations.
- Follow local rules for container rinsing or disposal.

Waste Codes (Examples):

- **U.S. (RCRA):**
D001 (Ignitable waste) if uncured solvent content remains.
- **EU Waste Codes:**
08 04 09* – Waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10* – Packaging containing residues of or contaminated by hazardous substances

14. TRANSPORT INFORMATION

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

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Road/Rail Transport (ADR/RID):

- UN 1263, Class 3, Packing Group III
- Label: Flammable Liquid
- Tunnel Restriction Code: D/E

Sea Transport (IMDG):

- UN 1263, Class 3, Packing Group III
- EmS Codes: F-E, S-E
- Not classified as a marine pollutant

Air Transport (IATA/ICAO):

- UN 1263, Class 3, Packing Group III
- Packaging must comply with IATA regulations for flammable liquids

Special Precautions:

- Transport containers in upright position, tightly sealed.
- Protect from heat, sparks, and moisture.
- Segregate from incompatible materials like oxidizers.

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

This product is classified as **hazardous** under OSHA HCS due to flammability, skin and eye irritation, and respiratory sensitization hazards.

TSCA (Toxic Substances Control Act):

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

SARA Title III (Emergency Planning and Community Right-to-Know Act):

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

Section 313: Contains **Xylene** (CAS 1330-20-7) and other reportable chemicals subject to annual reporting.

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

Ingredients are either **registered**, **pre-registered**, or exempt under REACH.

CLP Regulation (EC 1272/2008):

Classified and labeled in accordance with GHS criteria.

Canada:**WHMIS 2015:**

Product is classified as hazardous under the Hazardous Products Regulations (HPR) and requires appropriate labeling and SDS.

Other Global Inventories:

Ingredients comply with regulations in Australia (AICS), China (IECSC), Japan (ENCS), Korea (KECI), and others.

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