

MSDS- VOGAURETHANE FOAM

PAGE 1 / 9

VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGAURETHANE FOAM**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGAURETHANE FOAM

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 **VOGAURETHANE FOAM****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **Two-component polyurethane resin system**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****Part A (Polyol):**

May cause skin and eye irritation.

Generally low hazard.

Part B (Isocyanate):**Hazardous.**

Causes serious eye irritation and skin sensitization.

May cause respiratory sensitization (asthma).

Flammable liquid and vapor.

Harmful if inhaled.

Signal Word:

Part A: Warning

Part B: Danger

Hazard Statements (Part B):

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

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

H226: Flammable liquid and vapor

H331: Toxic if inhaled

Precautionary Statements:

Avoid breathing vapors or mist.

Use only outdoors or in well-ventilated areas.

Wear protective gloves, clothing, eye, and respiratory protection.

In case of inadequate ventilation, use respiratory protection.

Keep away from heat, sparks, open flames. No smoking.

Store components separately in tightly closed containers.

Other Hazards:

Vapors may form explosive mixtures with air.

Containers may rupture if exposed to moisture or heat.

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3. COMPOSITION

Component	CAS Number	% by Weight	Classification (GHS)
Polyol (Part A)	Proprietary	%70–50	Skin Irrit. 2, Eye Irrit. 2
Polymeric MDI (Isocyanate, Part B)	9-87-9016	%50–30	Resp. Sens. 1, Skin Sens. 1, Skin Irrit. 2, Eye Irrit. 2, Flam. Liq. 3

Notes:

- Exact composition is proprietary.
- Part B contains isocyanates, which require careful handling due to respiratory sensitization risks.

4. FIRST AID MEASURES**Inhalation:**

- Move the person to fresh air immediately.
- If breathing is difficult, administer oxygen or provide artificial respiration as needed.
- Seek immediate medical attention.
- Monitor for delayed respiratory symptoms, especially with isocyanate exposure.

Skin Contact:

- Remove contaminated clothing and wash skin thoroughly with soap and water.
- Do not use solvents to clean skin.
- If irritation or allergic reaction develops, seek medical advice.

Eye Contact:

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

Ingestion:

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

Most Important Symptoms and Effects:

- Respiratory irritation and sensitization.
- Skin irritation and allergic dermatitis.
- Eye irritation and possible damage.

Advice to Physicians:

- Treat symptomatically.
- Monitor respiratory function closely, especially after isocyanate exposure.

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

- Alcohol-resistant foam
- Dry chemical powder
- Carbon dioxide (CO₂)

Unsuitable Extinguishing Media:

- Water jet (may spread fire)

Specific Hazards Arising from the Product:

- Flammable liquid and vapor (especially Part B)
- Containers may rupture due to pressure build-up under heat
- Combustion produces toxic gases, including:
 - Isocyanates
 - Carbon monoxide (CO)
 - Carbon dioxide (CO₂)

Protective Equipment for Firefighters:

- Wear full protective clothing and self-contained breathing apparatus (SCBA).
- Fight fire from safe distance and upwind.
- Use water spray to cool containers exposed to fire.

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

- Evacuate non-essential personnel.
- Avoid inhalation of vapors and contact with skin and eyes.
- Use appropriate personal protective equipment (PPE), including gloves, goggles, and respiratory protection if necessary.
- Ensure adequate ventilation.

Environmental Precautions:

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

Methods for Containment and Cleanup:

- Contain spill using inert absorbents such as sand, earth, or vermiculite.
- Collect absorbed material in labeled containers for proper disposal.
- Clean affected surfaces with detergent and water; avoid solvents to prevent spreading contamination.
- Ventilate the area thoroughly.

Disposal:

- Dispose of waste according to local, regional, and national regulations (see Section 13).

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

- Use only in well-ventilated areas.
- Avoid inhaling vapors, and prevent skin and eye contact.
- Wear appropriate personal protective equipment (PPE).
- Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
- Use non-sparking tools and ensure proper grounding of equipment.
- Handle Part A and Part B separately until mixing.
- Avoid moisture contamination, especially for Part B (isocyanate).

Conditions for Safe Storage:

- Store components in tightly sealed containers in a cool, dry, well-ventilated area.
- Recommended storage temperature: 5°C to 30°C.
- Protect from moisture, freezing, and direct sunlight.
- Store Part A and Part B separately.
- Keep away from incompatible substances such as strong acids, bases, and oxidizers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS Number	OSHA PEL
Polymeric MDI (Isocyanate)	9-87-9016	0.02 ppm (Ceiling)
Polyol (Part A)	Proprietary	Not established

Engineering Controls:

- Use local exhaust ventilation to maintain airborne concentrations below exposure limits.
- Ensure general ventilation is sufficient in work areas.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use a NIOSH-approved respirator with organic vapor and particulate cartridges if ventilation is inadequate or exposure exceeds limits.
- **Eye Protection:** Chemical splash goggles or face shield.
- **Skin Protection:** Chemical-resistant gloves (e.g., nitrile, butyl rubber) and protective clothing.

Hygiene Measures:

- Wash hands thoroughly after handling.
- Remove contaminated clothing and wash before reuse.
- Avoid eating, drinking, or smoking in work areas.

VOGEL SYSTEMS Safety data sheet

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9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Part A (Polyol)	Part B (Isocyanate)
Appearance	Clear to pale yellow liquid	Pale amber liquid
Odor	Mild	Pungent, characteristic
Odor Threshold	Not determined	Not determined
pH	Not applicable	Not applicable
Melting/Freezing Point	Not determined	Not determined
Initial Boiling Point	> 200°C	~ 200°C
Flash Point	> 100°C	~ 40°C
Evaporation Rate	Not determined	Not determined
Flammability	Not flammable	Flammable liquid and vapor
Upper/Lower Flammability Limits	Not determined	Not determined
Vapor Pressure	Low	Moderate
Vapor Density	Heavier than air	Heavier than air
Relative Density	~ 1.1 g/cm ³	~ 1.2 g/cm ³
Solubility	Insoluble in water	Insoluble in water
Partition Coefficient (Log Kow)	Not determined	Not determined
Auto-ignition Temperature	Not determined	Not determined
Decomposition Temperature	Not determined	Not determined

10. STABILITY AND REACTIVITY**Reactivity:**

- Reacts exothermically with moisture during curing.
- Avoid contact between Part B (isocyanate) and moisture before mixing.

Chemical Stability:

- Stable when stored in tightly closed containers under recommended conditions.
- Part A and Part B should be stored separately.

Possibility of Hazardous Reactions:

- Reaction with water produces carbon dioxide gas which may cause pressure build-up in closed containers.
- Avoid contact with strong acids, bases, and oxidizing agents.

Conditions to Avoid:

- Moisture and humidity
- Heat, flames, and sparks
- Freezing temperatures

Incompatible Materials:

- Water
- Alcohols
- Amines
- Strong acids and bases
- Oxidizers

Hazardous Decomposition Products:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)
- Isocyanate vapors
- Other toxic organic compounds when heated or burned

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

- Inhalation of vapors or aerosols
- Skin contact
- Eye contact
- Ingestion (unlikely)

Acute Toxicity:

- **Inhalation:** May cause respiratory irritation, sensitization, or asthma-like symptoms (Part B).
- **Skin Contact:** Causes irritation and may cause allergic skin reactions.
- **Eye Contact:** Causes serious eye irritation.
- **Ingestion:** May cause gastrointestinal irritation.

Skin Corrosion/Irritation:

- Causes skin irritation and sensitization.

Serious Eye Damage/Irritation:

- Causes serious eye irritation or damage.

Respiratory or Skin Sensitization:

- Part B (Isocyanate) is a respiratory and skin sensitizer. May cause asthma and allergic dermatitis.

Carcinogenicity:

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

Mutagenicity:

- Not considered mutagenic based on available data.

Reproductive Toxicity:

- No evidence of reproductive toxicity under normal use.

Specific Target Organ Toxicity (STOT):

- Single exposure: May cause respiratory irritation.
- Repeated exposure: May cause sensitization and respiratory issues.

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12. ECOLOGICAL INFORMATION**Ecotoxicity:**

- Toxic to aquatic organisms in uncured form.
- Avoid release to the environment.

Persistence and Degradability:

- Not readily biodegradable.
- Cured material is chemically stable and inert.

Bioaccumulative Potential:

- Low potential for bioaccumulation.

Mobility in Soil:

- Uncured resin may migrate in soil and contaminate groundwater.
- Cured resin is immobile.

Other Adverse Effects:

- No known ozone depletion or global warming potential.

13. DISPOSAL CONSIDERATIONS**Product Disposal:**

- Dispose of uncured material as hazardous waste in accordance with local, regional, and national regulations.
- Do not discharge into drains or water bodies.

Cured Material:

- Cured resin is generally non-hazardous and may be disposed of as solid waste according to local regulations.

Packaging Disposal:

- Dispose of containers following local regulations.
- Empty containers may retain residues and should be handled accordingly.

Waste Codes (Examples):

- US RCRA: D001 (Ignitable waste, if solvents remain)
- EU Waste Codes: 08 04 09* (Adhesives and sealants containing organic solvents)

14. TRANSPORT INFORMATION

Parameter	Part A (Polyol)	Part B (Isocyanate)
UN Number	Not regulated	UN 2078
Proper Shipping Name	Not regulated	Isocyanates, liquid, toxic, n.o.s.
Hazard Class	Not applicable	6.1 (Toxic substances)
Packing Group	Not applicable	III
Marine Pollutant	No	No

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Transport Modes:

- Road/Rail (ADR/RID): Follow above classification for Part B.
- Sea Transport (IMDG): Comply with UN 2078 regulations for Part B.
- Air Transport (IATA): Follow regulations for toxic substances for Part B.

Special Precautions:

- Keep containers tightly closed and upright.
- Protect from moisture and heat.
- Segregate from incompatible materials during transport.

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

Classified as hazardous due to respiratory sensitization, skin sensitization, and flammability.

Toxic Substances Control Act (TSCA):

All components are listed or exempt from inventory.

SARA Title III (EPCRA):

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

Section 313: Contains reportable chemicals such as polymeric MDI (CAS 9016-87-9).

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

Ingredients are registered or exempt.

CLP Regulation (EC 1272/2008):

Classified and labeled per GHS.

Canada:**WHMIS 2015:**

Classified as hazardous; requires appropriate labeling and SDS.

Other International Regulations:

Ingredients comply with inventories including 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