

MSDS- VOGATHERMO-C

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VOGEL SYSTEMS Safety data sheet

Date /Revised: 19.09.2022

Product: **MSDS- VOGATHERMO-C**

Version: 1.0

Date of print 20.09.2022

1. Identification

Product identifier

VOGATHERMO-C

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 **VOGATHERMO-C****2. Relevant identified uses of the substance or mixture and uses advised against**Identified uses : **Multi-Purpose Outdoor Surface Coating**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****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 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 generally poses minimal hazard

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3. COMPOSITION

Component	CAS Number	% by Weight	Classification (GHS)
Acrylic/Polyurethane Resin	Proprietary	%70–40	Not classified or varies
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, Pigments, Fillers	Various	Balance	Varies

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

- Remove affected person from exposure.
- Seek medical attention if symptoms develop or persist.

Inhalation:

- Move to fresh air immediately.
- If breathing is difficult, administer oxygen and seek medical assistance.
- Monitor for delayed respiratory effects.

Skin Contact:

- Remove contaminated clothing.
- Wash skin thoroughly with soap and water.

Eye Contact:

- Rinse eyes with water for at least 15 minutes, holding eyelids open.
- Remove contact lenses if present and easy to do.
- Get immediate medical attention.

Ingestion:

- Do not induce vomiting.
- Rinse mouth thoroughly with water.

Most Important Symptoms and Effects:

- Skin irritation or rash
- Eye redness and irritation
- Respiratory irritation, coughing
- Possible allergic sensitization

Advice to Physicians:

- Treat symptomatically.
- Monitor respiratory function following inhalation exposure.

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 jets (may spread the fire)

Specific Hazards Arising from the Product:

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

Protective Equipment for Firefighters:

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

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

- Evacuate non-essential personnel.
- Avoid breathing vapors or mist.
- Ensure adequate ventilation.
- Remove all sources of ignition — no smoking, sparks, or flames.
- Wear appropriate personal protective equipment (PPE): chemical-resistant gloves, safety goggles, and protective clothing.

Environmental Precautions:

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

Methods and Materials for Containment and Cleaning Up:

- Contain the spill with inert absorbent materials such as sand, earth, or vermiculite.
- Collect absorbed material into labeled containers for disposal.
- Clean affected surfaces with detergent and water; avoid solvents.
- Ventilate the area thoroughly.

Disposal:

- Dispose of waste according to local, regional, and national regulations.
- Refer to Section 13 for disposal considerations.

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

- Use only in well-ventilated areas.
- Avoid inhalation of vapors and contact with skin and eyes.
- Keep away from heat, sparks, open flames, and hot surfaces — no smoking.
- Use non-sparking tools and ensure equipment is grounded.
- Wear appropriate personal protective equipment (see Section 8).
- Prevent moisture contamination if product is moisture-sensitive.

Conditions for Safe Storage:

- Store in tightly sealed 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.

Additional Information:

- Store separately from food, drink, and incompatible substances.
- Follow first-in, first-out (FIFO) inventory management to ensure product freshness.

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 local exhaust ventilation to maintain exposure below OELs.
- Ensure general ventilation is adequate in enclosed spaces.
- Use explosion-proof electrical and ventilation equipment in flammable environments.

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use NIOSH-approved organic vapor respirator if ventilation is insufficient.
- **Eye Protection:** Wear chemical splash goggles or face shield.
- **Skin Protection:** Use chemical-resistant gloves (nitrile, butyl rubber) and protective clothing.

Hygiene Measures:

- Wash hands thoroughly after handling.
- Remove contaminated clothing before entering eating areas.
- Do not eat, drink, or smoke in work areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Colored liquid or paste
Odor	Solvent-like or mild polymer odor
Odor Threshold	Not determined
pH	Not applicable (non-aqueous)
Melting/Freezing Point	Not determined
Initial Boiling Point and 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	~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 (depending on product)
VOC Content	Typically <300 g/L

10. STABILITY AND REACTIVITY**Reactivity:**

- Generally stable under recommended handling and storage conditions.
- Some formulations may react with moisture leading to curing or polymerization.

Chemical Stability:

- Stable when stored in original, sealed containers away from heat and moisture.
- Shelf life may be reduced if exposed to air or extreme temperatures.

Possibility of Hazardous Reactions:

- May react exothermically with water, acids, or bases if improperly mixed.
- Vapors may form explosive mixtures with air in confined spaces.
- No hazardous polymerization expected under normal use.

Conditions to Avoid:

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

Incompatible Materials:

- Strong oxidizers
- Acids and bases
- Water and moisture (for moisture-sensitive products)

Hazardous Decomposition Products:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)
- Hydrogen cyanide (HCN) (in some cases)
- 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 repeated or prolonged exposure.
- **Eye Contact:** Causes irritation, redness, and tearing.
- **Ingestion:** May cause gastrointestinal irritation, nausea, or vomiting.

Skin Corrosion/Irritation:

- Causes skin irritation with redness or dryness.

Serious Eye Damage/Irritation:

- Causes eye irritation and 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 based on current data.

Reproductive Toxicity:

- No evidence of reproductive toxicity at normal exposure levels.

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 life** and may cause long-term adverse effects in aquatic environments.
- Solvent components contribute to aquatic toxicity.

Persistence and Degradability:

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

Bioaccumulative Potential:

- Solvent ingredients may bioaccumulate moderately; the cured product is unlikely to bioaccumulate.

Mobility in Soil:

- Uncured product may migrate in soil and contaminate groundwater.
- Cured coating 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 according to local, regional, and national regulations.
- Avoid discharge into drains, water bodies, or soil.
- Incineration at licensed hazardous waste facilities is preferred.

Cured Material:

- Cured coating is generally considered **non-hazardous solid waste** and may be disposed of in landfills or construction waste facilities in accordance with local regulations.

Packaging Disposal:

- Do not reuse empty containers.
- Dispose of containers in compliance with local hazardous waste regulations unless properly cleaned.

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	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, Packing Group III
Tunnel Restriction Code: D/E
- **Sea Transport (IMDG):**
UN 1263, Class 3, Packing Group III
EmS Codes: F-E, S-E
Not classified as marine pollutant
- **Air Transport (IATA/ICAO):**
UN 1263, Class 3, Packing Group III
Must comply with IATA Dangerous Goods Regulations

Special Precautions:

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

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

Classified as hazardous due to flammability and health hazards.

Toxic Substances Control Act (TSCA):

All components are listed or exempt from 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):

Classified and labeled according to GHS.

Canada:**WHMIS 2015:**

Classified as hazardous, requiring appropriate labeling and safety data sheet.

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