MSDS- Voga ZincRich

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1.Identification

Product identifier

Voga ZincRich

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 **Voga ZincRich**

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

Identified uses **: Two components epoxy zinc rich primer for steel**

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

Classification (GHS):

- *Flammable Liquid* – Category 3
- *Skin Irritation* – Category 2
- *Eye Irritation* – Category 2A
- *Sensitization (Skin)* – Category 1
- *Aquatic Chronic* – Category 2

Label Elements:

Warning

- Causes skin and eye irritation
- May cause an allergic skin reaction
- Flammable liquid and vapor
- Toxic to aquatic life with long-lasting effects

Precautionary Statements:

- Keep away from heat/sparks/open flames
- Wear protective gloves/eye protection
- Avoid release to the environment

- IF ON SKIN: Wash with plenty of soap and water

3. COMPOSITION

Component	CAS No.	% by Weight	Component
Zinc Dust (powder)	6-66-7440	%85–60	Zinc Dust (powder)
Epoxy Resin	6-38-25068	%30–10	Epoxy Resin
Polyamide Hardener (B)	Proprietary	%30–10	Polyamide Hardener (B)
Solvent (e.g., Xylene)	7-20-1330	%15–5	Solvent (e.g., Xylene)

4. FIRST AID MEASURES

- **Inhalation:**
  Move the person to fresh air immediately. Keep them calm and comfortable. If they have trouble breathing or feel unwell, seek medical attention right away.
- **Skin Contact:**
  Remove any contaminated clothing. Wash the affected skin thoroughly with soap and water. If irritation, redness, or rash appears, consult a doctor.
- **Eye Contact:**
  Rinse the eyes gently with clean water for at least 15 minutes. Be sure to lift the eyelids and remove contact lenses if possible. Get medical help if irritation continues.
- **Ingestion:**
  Do **not** induce vomiting. Rinse the mouth with water. If the person feels unwell or shows symptoms, get medical assistance immediately. Never give anything by mouth to someone who is unconscious.
- **Note to Physicians:**
  Provide treatment based on symptoms. Watch for possible allergic reactions or respiratory effects due to sensitization.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:
- Dry chemical powder
- Carbon dioxide (CO_2)
- Alcohol-resistant foam
- Water spray (fog only — not a direct stream)

Unsuitable Extinguishing Media:
- Do **not** use a strong water jet, as it may spread the fire.

Specific Hazards Arising from the Product:
- Flammable liquid and vapor
- When heated or in a fire, may release toxic fumes including:
  Carbon monoxide (CO)
  Carbon dioxide (CO_2)
  Metal oxides (e.g., zinc oxide)
  Other harmful decomposition products

Protective Equipment for Firefighters:
- Use full protective gear, including fire-resistant clothing.
- Self-contained breathing apparatus (SCBA) is **essential** to avoid inhaling hazardous gases.
- Keep containers cool with water spray to prevent pressure buildup and possible explosion.

Additional Advice:
- Evacuate area and fight fire from a safe distance.
- Prevent runoff from fire control from entering waterways or drains.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
- Evacuate unnecessary personnel from the area.
- Ensure proper ventilation.
- Avoid contact with skin, eyes, and clothing.
- Use **personal protective equipment (PPE)** including gloves, goggles, and respirators if required.
- Eliminate all sources of ignition (no smoking, flames, sparks).

Environmental Precautions:
- Prevent the product from entering drains, sewers, or natural waterways.
- Notify authorities if large quantities enter water or soil.

Spill Containment and Clean-Up Procedures:
- Stop the leak if it can be done safely.
- Contain the spill using non-combustible absorbent materials (e.g., sand, earth, vermiculite).
- Collect residue and dispose of it in suitable, labeled containers for hazardous waste.
- Clean the affected area with detergent and water — **do not use solvents**.

Disposal:
- Dispose of collected materials and waste in accordance with local, national, or regional regulations.

7. HANDLING AND STORAGE

Handling:
- Use only in well-ventilated areas.
- Keep away from heat, sparks, open flames, and other ignition sources — **no smoking**.
- Avoid inhalation of vapors or spray mist.
- Avoid contact with skin, eyes, and clothing.
- Do not eat, drink, or smoke while handling this product.
- Wash hands thoroughly after handling.
- Use **personal protective equipment (PPE)** as required.
- Ground/bond container and receiving equipment when transferring material.

Storage:
- Store in a **cool, dry, well-ventilated** area.
- Keep containers tightly closed when not in use.
- Store away from incompatible materials such as strong oxidizers, acids, and alkalis.
- Protect from direct sunlight and temperatures above **35°C (95°F)**.
- Do not store near food, beverages, or animal feed.

Packaging Materials:
- Store in original, labeled containers made of compatible material (e.g., metal drums or HDPE pails).

Shelf Life:
- Approximately **12 months** under recommended storage conditions.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Substance	CAS No.	OSHA TWA
Zinc Dust	6-66-7440	10 mg/m³ (total)
Xylene	7-20-1330	100 ppm

- **Engineering Controls:**

Use local exhaust ventilation or general dilution ventilation to maintain airborne concentrations below exposure limits.
Ensure eye wash stations and safety showers are nearby.

Personal Protective Equipment (PPE):
Respiratory Protection:
Use an **NIOSH-approved organic vapor respirator** when ventilation is inadequate or during spraying/application.
Skin Protection:
Wear **chemical-resistant gloves** (e.g., nitrile or neoprene).
Use **long sleeves and pants or coveralls** to prevent skin exposure.
Eye/Face Protection:
Use **safety goggles** or a **face shield** when there's a risk of splashing.
Hygiene Measures:
Wash thoroughly after handling and before eating, drinking, or using the restroom.
Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance (Part A)	Grey zinc-rich paste
Appearance (Part B)	Amber or clear liquid
Odor	Solvent-like
Odor Threshold	Not determined
pH	Not applicable (non-aqueous system)
Melting/Freezing Point	Not determined
Boiling Point	>130°C (depending on solvent)
Flash Point	~27°C (closed cup)
Evaporation Rate	Slower than butyl acetate
Flammability	Flammable liquid
Upper/Lower Flammable Limits	Not determined
Vapor Pressure	Low
Vapor Density	Heavier than air
Relative Density	~2.4 g/cm³ (mixed product)
Solubility in Water	Insoluble
Partition Coefficient (n-octanol/water)	Not determined
Auto-Ignition Temp.	Not determined
Decomposition Temp.	Not determined
Viscosity	High (paste-like for Part A)

10. STABILITY AND REACTIVITY

- **Reactivity:**

Not reactive under normal storage and handling conditions.

- **Chemical Stability:**

Stable when stored and used as directed.
Avoid excessive heat, open flames, and prolonged exposure to air or moisture.

- **Possibility of Hazardous Reactions:**

No dangerous reactions known under normal conditions of use.
May react exothermically with strong oxidizers or acids.

- **Conditions to Avoid:**

Heat, sparks, flames, and other ignition sources
Freezing temperatures or temperatures above 35°C
Direct sunlight or poor ventilation

- **Incompatible Materials:**

Strong oxidizing agents (e.g., peroxides, chlorine)
Acids and alkalis
Amines (for Part A) or epoxy groups (for Part B) if improperly mixed

- **Hazardous Decomposition Products:**

Carbon monoxide (CO)
Carbon dioxide (CO_2)
Zinc oxides
Aldehydes and other toxic fumes during combustion or thermal breakdown

11. TOXICOLOGICAL INFORMATION

- **Likely Routes of Exposure:**

Inhalation
Skin contact
Eye contact
Ingestion (accidental)

- **Acute Toxicity:**

Inhalation: May cause irritation to the respiratory tract, dizziness, or headaches with prolonged or high exposure.
Skin: May cause irritation or sensitization, especially with repeated exposure.
Eyes: Causes eye irritation; redness, tearing, and discomfort may occur.
Ingestion: Harmful if swallowed. May cause nausea, vomiting, and gastrointestinal distress.

- **Skin Corrosion/Irritation:**

Can cause dryness, cracking, or mild inflammation upon prolonged contact.

- **Serious Eye Damage/Irritation:**

Causes eye irritation; symptoms may include tearing, redness, and blurred vision.

- **Respiratory or Skin Sensitization:**

Contains components (e.g., epoxy resins) that may cause allergic skin reactions in sensitized individuals.

- **Germ Cell Mutagenicity:**

Not classified as mutagenic.

- **Carcinogenicity:**

Not listed as carcinogenic by **IARC**, **NTP**, or **OSHA**.

- **Reproductive Toxicity:**

No evidence of reproductive effects under normal industrial use.

- **STOT – Single Exposure:**

May cause irritation to respiratory system.

- **STOT – Repeated Exposure:**

Prolonged or repeated contact may cause skin sensitization and organ effects with poor hygiene practices.

- **Aspiration Hazard:**

Not classified as an aspiration hazard.

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:**

This product is **toxic to aquatic life** and may cause long-term adverse effects in the aquatic environment.
Contains **zinc dust** and **solvents** that are harmful to fish, algae, and other aquatic organisms.

- **Persistence and Degradability:**

Epoxy resins are not readily biodegradable.
Zinc dust is persistent in soil and water and may accumulate in sediments.

- **Bioaccumulative Potential:**

Zinc may **bioaccumulate** in aquatic organisms.
Epoxy resins have low potential for bioaccumulation but should still be prevented from entering natural ecosystems.

- **Mobility in Soil:**

Product components are generally **immobile** in soil due to low solubility in water.
Spilled material may contaminate groundwater if not properly contained.

- **Other Adverse Effects:**

Avoid release to the environment.
No known ozone depletion potential.

13. DISPOSAL CONSIDERATIONS

- **Disposal Methods:**

Dispose of this material in accordance with **local, regional, national, and international regulations**.
Do **not** discharge into drains, surface water, or soil.
Dispose of **liquid waste** and **solid residues** via a licensed hazardous waste disposal contractor.

- **Product Waste:**

Should be treated as **hazardous waste**.
Mix any remaining components **only if** disposal as cured solid is permitted by regulations.
Avoid creating dust or fumes during disposal.

- **Contaminated Packaging:**

Empty containers may retain product residues (liquid or vapor).
Do **not** reuse containers for other purposes.
Rinse thoroughly and dispose of via certified waste handler if allowed, or puncture and send to landfill under appropriate guidelines.

- **Recommended Waste Codes (EU/US examples):**

08 01 11 – Waste paint and varnish containing organic solvents or other hazardous substances
RCRA Code D001/D035 (flammable, xylene-containing)

14. TRANSPORT INFORMATION

Regulatory Body	**Classification**
UN Number	UN1263
UN Proper Shipping Name	Paint or Paint Related Material
Transport Hazard Class(es)	3 (Flammable Liquid)
Packing Group	III
Label	Flammable Liquid (Class 3)
Marine Pollutant	Yes (contains zinc and solvents)
Environmental Hazards	Dangerous for the environment (aquatic)

Additional Information:
IMDG (Sea Transport):
Marine Pollutant: Yes
EmS Code: F-E, S-E
IATA (Air Transport):
Packaging must meet air transport regulations
Flammable liquid, use Class 3 label
ADR/RID (Road/Rail Europe):
Limited Quantity: Yes (depending on volume per package)
Tunnel Restriction Code: D/E
Special Precautions:
Keep containers upright and secure during transport.
Avoid transport with foodstuffs or animal feed.
Ensure vehicle signage complies with local regulations.

15. Regulatory Information

United States:
OSHA Hazard Communication Standard (29 CFR 1910.1200):
Classified as hazardous — flammable liquid, skin/eye irritant, sensitizer, aquatic toxicant.
TSCA (Toxic Substances Control Act):
All ingredients are either listed on the TSCA Inventory or are exempt.
SARA Title III (EPCRA):
Section 311/312: Fire hazard, Acute health hazard
Section 313: Contains **xylene** and **zinc compounds**, subject to reporting
European Union (CLP Regulation – EC No 1272/2008):
Product is classified and labeled in accordance with GHS/CLP.
Contains zinc — **dangerous for the environment**.
Requires **hazard pictograms**, **signal word**, and **precautionary statements** on packaging.
REACH (EC 1907/2006):
All relevant substances are **registered or exempt** under REACH.
Safety assessment data available upon request.
Other Global Regulations (examples):
Canada (WHMIS 2015 / HPR):
Classified as hazardous under the Hazardous Products Regulation (HPR)
Requires bilingual labeling and SDS
Australia (AICS):
All components are listed or compliant
Japan (ISHL/PRTR):
Subject to labeling under Fire Service Act and PRTR Law

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