

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



**104000 Vivianite**

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## 1. Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1. Product Identifier

*Product Name:* Vivianite  
*Article No.:* 104000  
*UFI:* --

### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*  
Pigment in artists colors.

*Uses advised against:*

### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG  
*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany  
*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606  
*Internet:* www.kremer-pigmente.com  
*E-Mail:* info@kremer-pigmente.com  
*Importer:* --

### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

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## 2. Hazards Identification

### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

### 2.3. Other Hazards

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## 3. Composition/Information on Ingredients

Substance

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3. 1.
3. 2. **Mixture**
- Chemical Characterization:* Natural mineral, ferric phosphate,  $\text{Fe}_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$ , 0 - 63  $\mu\text{m}$
- Information on Components / Hazardous Ingredients:*
- Additional information:*
- 

## 4. First Aid Measures

### 4. 1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.*

*After eye contact:*

*Rinse open eye for several minutes under running water.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.*

### 4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

### 4. 3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No information available.*

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## 5. Fire-Fighting Measures

### 5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Product itself does not burn.*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

### 5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Do not inhale fumes.*

### 5. 3. Advice for Firefighters

*Protective equipment:*

*Wear suitable protective clothing.*

*Further information:*

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## 6. Accidental Release Measures

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## 6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust.*

## 6. 2. Environmental Precautions

*Environmental precautions:*

*No special measures required.*

## 6. 3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.*

## 6. 4. Reference to other Sections

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# 7. Handling and Storage

## 7. 1. Precautions for Safe Handling

*Instructions on safe handling:*

*Avoid formation and deposition of dust. Provide adequate ventilation.*

*Hygienic measures:*

## 7. 2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*Product is not combustible.*

*Storage class:*

*Further Information:*

*Store in a dry place.*

## 7. 3. Specific End Use(s)

*Further information:*

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# 8. Exposure Controls/Personal Protection

## 8. 1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*TLV: 10 mg/m<sup>3</sup> inhalable fraction (general dust limit)*

*TLV: 1.25 mg/m<sup>3</sup> air-borne fraction (general dust limit)*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

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## 8.2. Exposure Controls

*Technical protective measures:*

*Provide adequate ventilation.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*In case of formation of dust.*

*Hand protection:*

*In general not required.*

*Protective glove material:*

*Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.*

*Eye protection:*

*Recommended in case of extreme dust formation (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* powder

*Color:* bright blue

*Odor:* odorless

*Odor threshold:*  
no information available

*pH-Value:*  
not determined

*Melting temperature:*  
not available

*Boiling temperature:*  
not applicable

*Flash point:*  
not applicable

*Evaporation rate:*  
No information available.

*Flammability (solid, gas):*  
not applicable

*Upper explosion limit:*  
no information available

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*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not applicable*

*Vapor density:*

*Density:*

*2.6 - 2.7 g/cm<sup>3</sup>*

*Solubility in water:*

*insoluble*

*Coefficient of variation (n-  
Octanol/Water):*

*not determined*

*Auto-ignition temperature:*

*No information available.*

*Decomposition temperature:*

*not determined*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*not applicable*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*0 - 63 µm*

*Other information:*

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## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Unknown.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

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*Thermal decomposition:*

10.5. **Incompatible Materials**

*No information available.*

10.6. **Hazardous Decomposition Products**

*None if stored and handled according to specifications.*

10.7. **Further Information**

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11. **Toxicological Information**

11. 1. **Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008**

*No toxicity expected.*

*Acute Toxicity*

*LD50, oral:*

*LD50, dermal:*

*LC50, inhalation:*

*Primary effects*

*Irritant effect on skin:*

*No irritant effect known.*

*Irritant effect on eyes:*

*The dust particles can cause mechanical irritation.*

*Inhalation:*

*No irritant effect known.*

*Ingestion:*

*No irritant effect known.*

*Sensitization:*

*No relevant data found.*

*Mutagenicity:*

*No mutagenic effects known.*

*Reproductive toxicity:*

*No negative effects.*

*Carcinogenicity:*

*No relevant data found.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No relevant data found.*

*Aspiration hazard:*

*No information available.*

11. 2. **Information on other Hazards**

*No further information available.*

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12. **Ecological Information**

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## 12.1. Aquatic Toxicity

*No information available.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

## 12.2. Persistency and Degradability

*No information available.*

## 12.3. Bioaccumulation

*The product is not hazardous to the aquatic system.*

## 12.4. Mobility

*No information available.*

## 12.5. Results of PBT- und vPvP Assessment

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

## 12.6. Endocrine Disrupting Properties

*Not listed.*

## 12.7. Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No ecological problems expected.*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

---

## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

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*Not hazardous goods*

## 14.3. Transport Hazard Classes

ADR Class:

*not applicable*

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

*not applicable*

Hazard no.:

EmS No.:

IATA Class:

*not applicable*

Hazard no.:

## 14.4. Packaging Group

ADR/RID:

*not applicable*

IMDG:

IATA:

## 14.5. Environmental Hazards

*Not classified as environmentally hazardous.*

## 14.6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

## 14.7. Maritime Transport in Bulk according to IMO Instruments

## 14.8. Further Information

*Not classified as a dangerous good under transport regulations.*

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## 15. Regulatory Information

### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

*0, not hazardous (German Regulation; Self-assessment)*

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

### 15.3. Further Information

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*