

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the Product

Product Name: Zirconium Cerulean Blue
Article No.: 45400
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
Address: Hauptstrasse 41-47, D 88317 Aichstetten
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Emergency No.: +49 7565 914480, Mon-Fri 8:00 - 17:00

2. Hazard Identification

Designation according to EC Regulation No.1272/2008

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

Designation according to EC Regulation No. 67/548 or No.1999/45

Hazard designation: The material is not subject to classification according to EC lists.

3. Composition/Information on Ingredients

Chemical Characterization: Inorganic pigment, Zirconium vanadium silicate (Zr,V)SiO₄.
CAS No. 68186-95-8, EINECS 269-056-9

4. First Aid Measures

After inhalation: Supply fresh air.
After skin contact: Wash off with water.
After eye contact: Rinse open eyes with plenty of water. In case of discomfort seek medical help.
After ingestion: If symptoms persist consult physician.

5. Fire-Fighting Measures

Suitable extinguishing media: Product itself does not burn.
Use extinguishing media for surrounding fire.
Protective equipment: Wear suitable protective clothing.

6. Accidental Release Measures

Personal precautions: Ensure adequate ventilation.
Environmental precautions: Prevent contamination of soil, drains and surface waters.
Methods of cleaning/absorption: Take up mechanically and collect in suitable containers for reuse or disposal. Avoid formation of dust.

7. Handling and Storage

Handling

Instructions on safe handling: Avoid formation of dust. Do not inhale dust.

Instructions on safe handling: Respiratory protection when handling without exhaust system.

Storage

Storage conditions: No special measures required.

8. Exposure Controls/Personal Protection

Technical protective measures: Provide adequate ventilation in case of dust formation.
Components with workplace control parameters (Germany): TWA-Value: 3 mg/m³ air-borne fraction (general dust limit)

Personal protective equipment

General protective measures: Do not inhale dust. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of work.

Respiratory protection: If exposure limit is exceeded: dust mask with particle filter P2 (for solid and liquid particles DIN 3181).

Hand protection: Protective gloves

Eye protection: Safety glasses

9. Physical and Chemical Properties

Form: powder
Color: blue
Odor: odorless
Flash point: not applicable
Ignition temperature: not applicable
Density: 4.62 g/cm³
Solubility in water: insoluble

10. Stability and Reactivity

Hazardous reactions: Unknown.
Hazardous decomposition products: None known.

11. Toxicological Information

Acute toxicity

LD50, oral: > 2200 mg/kg (rat)
LD50, dermal: not irritating (rabbit skin, 4h)
LD50, inhalation: > 5.1 mg/l (rat; 4h)
Irritant effect on eyes: Non-irritating to eyes (rabbit)

12. Ecological Information

Elimination (Persistence and Degradability): Inorganic product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Ecological effects

Aquatic toxicity: :
- Fish toxicity: LC0: > 10 000 mg/l (48h, Brachydanio rerio)
LC50: > 10 000 mg/l (96h)

Further information

Water hazard class: 0

13. Disposal Considerations

Product: Product can be taken to a waste disposal site according to local regulations.
European Waste Code (EWC): 080112 - Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), sealants and printing inks.

14. Transport Information

Further information: Not classified as a dangerous good under transport regulations.

15. Regulatory Information

Chemical safety assessment: No information available.
Water hazard class: 0, not hazardous

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.