# Material Safety Data Sheet

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

## 23451 Dioxazine Violet

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| 1.1 | Product Identifier | **Product Name:** Dioxazine Violet  
**Article No.:** 23451 |
| 1.2 | Relevant identified Uses of the Substance or Mixture and Uses advised against | **Identified uses:** Coloring component  
**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.de  
**EMail:** info@kremer-pigmente.de  
**Importer:** -- |
| 1.4 | Emergency No. | **Emergency No.:** +49 7565 914480 (Mon-Fri 8:00 - 17:00) |
| 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.  
**Classification according to Directive No. 67/548/EC or No. 1999/45/EC:** The material is not subject to classification according to EC lists.  
**Safety Phrases:**  
**Possible Environmental Effects:** |
| 2.2 | Label Elements | **Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS):** This product does not require classification and labelling as hazardous according to CLP/GHS.  
**Hazard designation:** Not applicable.  
**Signal word:**  
**Hazard designation:**  
**Safety designation:**  
**Hazardous components for labelling:** Other Hazards |
2.3. This product is capable of dust explosion under certain circumstances.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Dioxazine, C.I. Pigment Violet 37

Information on Components / Hazardous Ingredients:

Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information: Remove contaminated clothes.

After inhalation: Supply fresh air. Consult physician if symptoms persist.

After skin contact: Wash with soap and rinse with plenty of water.

After eye contact: Rinse open eyes with plenty of water for at least 15 minutes.

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: No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment: Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media: Extinguishing powder, foam.

 Unsuitable extinguishing media: Carbon dioxide (CO2)

5.2. Special Hazards arising from the Substance or Mixture

Special hazards: In case of fire: hazardous vapors may be released. Development next page: 3
5. 3. Advice for Firefighters

**Protective equipment:**
Wear self-contained respiratory protective device.

**Further information:**
Avoid formation of dust: risk of dust explosion.
Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

6. Accidental Release Measures

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

**Personal precautions:**
Avoid formation of dust, wear protective clothing.

6. 2. Environmental Precautions

**Environmental precautions:**
Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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

**Methods and material:**
Small spills:
Clean up with suitable appliance and dispose adequately.
Large spills:
Contain with dust binding material and dispose accordingly.
Avoid dust formation.

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

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

**Hygienic measures:**
No special measures required.

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:**
No special measures necessary.

**Information on fire and explosion protection:**
Avoid dust formation.
Dust explosion class 1 (Kst-value > 0 - 200 bar m/s).

**Storage class (VCI):**
11. Combustible solids

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Peak limit Category: 2 (II)

Category II: substances with a resorptive effect.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation in case of dust formation.

Personal Protection

General protective measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Protective clothing recommended due to the coloring effects of the product.

Respiratory protection:

Suitable respiratory protection for lower concentration or short-term effect: particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, type P2 or FFP2).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Recommended: Protective index 6, > 480 min. of permeation time accord. EN 374.

Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:
Environmental precautions: Avoid contamination of sewage system, open waterways and groundwater.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder
Color: violet
Odor: odorless

Odor threshold: No information available.

pH-Value: 5.5 - 8.5
Melting temperature: > 300°C
Boiling temperature: not applicable

Flash point: not available

Evaporation rate: This product is a non-volatile solid.

Flammability (solid, gas): 410°C (BAM) not easily flammable

Upper explosion limit: no information available

Lower explosion limit: no information available

Vapor pressure: not applicable

Vapor density: No information available.

Density: 1.35 g/cm³ (20°C)

Solubility in water: insoluble

Coefficient of variation (n-Octanol/Water): no information available

Auto-ignition temperature: Product is not auto-ignitable.

Decomposition temperature: > 180°C

Viscosity, dynamic: not applicable

Explosive properties: Product is not explosive.
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Oxidizing properties:  not oxidizing

Bulk density:  345 kg/m³ (20°C)

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:  16 µm

Other information:  No further information.

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

Risk of dust explosion.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.
Avoid electrostatic discharge.
Avoid ignition sources.

Thermal decomposition:

No further information available.

10.5. Incompatible Materials

Strong acids, strong bases and strong oxidizing agents.

10.6. Hazardous Decomposition Products

None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD₅₀, oral:  > 5000 mg/kg (rat)
LD₅₀, dermal:  > 2000 mg/kg (rat)
LC₅₀, inhalation:  No information available.

Primary effects
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Irritant effect on skin: Non irritating

Irritant effect on eyes: Non-irritating to eyes

Inhalation: No information available.

Ingestion: No information available

Sensitization: Not sensitizing.

Mutagenicity: Product does not show a mutagenic effect in a test with bacteria.

Reproductive toxicity: No data available.

Cancerogenity: No negative effects.

Teratogenicity: No information available.


Additional toxicological information: Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity: not determined

Daphnia toxicity: No information available.

Bacteria toxicity: EC50: > 100 mg/l (0.5h, active sludge)

Algae toxicity: No information available.

12.2. Persistency and Degradability

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

12.3. Bioaccumulation

Controlled release of small amounts of product in biological sewage system do not cause disorders of the biodegradability of activated sludge.

No bioaccumulation expected due to the distribution coefficient n.
12.4. Mobility

Octanol/water (logPOW).

No information available.

12.5. Results of PBT- und vPvP Assessment

According to Annex VIII to Regulation (EC) No. 1907/2006 (REACH): this product is neither a PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent/very bioaccumulative/very toxic) substance nor does it contain a PBT or vPvB substance.

12.6. Other Adverse Effects

Water hazard class:

1 (German Regulation) (Assessment by list): slightly hazardous.

Behaviour in sewage systems:

Treatment and discharge of waste water into biological treatment plant should be carried out according to official national and local regulations.

Further ecological effects:

Do not discharge product uncontrolled into the environment.

The data refer to the properties of the individual components.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

In accordance with current regulations, product may be taken to a waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):

Uncleaned packaging:

Packaging may be disposed of in the same manner as the product.

Uncontaminated packaging may be recycled.

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 (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable
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Hazard no.:  
Classification code:  
Tunnel no.:  
IMDG Class (sea):  
Hazard no.:  
EmS No.:  
IATA Class:  
Hazard no.:  

14.4. Packaging Group  
ADR/RID: not applicable  
IMDG:  
IATA:  

14.5. Environmental Hazards  
None  

14.6. Special Precautions for User  
Not classified as a dangerous good under transport regulations.  

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code  
not applicable  

14.8. Further Information  

15. Regulatory Information  

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture  
Water hazard class: 1, slightly hazardous for water (German Regulation, Assessment by list)  
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 yet been carried out for this product.  

15.3. Further Information  
Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable  

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.