

# Safety Data Sheet

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



## 45800 Cobalt Violet, dark

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Revised edition: 21.01.2022

Version: 18

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

#### 1.1. Product Identifier

*Product Name:* Cobalt Violet, dark

*Article No.:* 45800

*UFI:* --

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

*Identified uses:*  
Coloring agent for industrial purposes

*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:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

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

H302 Acute toxicity (oral), hazard category 4  
Cat.: 4 Carcinogenicity, hazard category 2  
Harmful if swallowed.

H351 Suspected of causing cancer.  
Cat.: 2

*Possible Environmental Effects:*

#### 2.2. Label Elements

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

*Hazard designation:*



GHS07-1

*Signal word:*

Warning

*Hazard designation:*

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H302	Harmful if swallowed.
H351	Suspected of causing cancer.
<i>Safety designation:</i>	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.
P301+P312	If swallowed: Call a poison center or physician if you feel unwell.
P308+P313	If exposed or concerned: Get medical advice/attention.
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/ container according to regional, national and international regulations.

*Hazardous components for labelling:*

### 2.3. Other Hazards

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## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Cobalt phosphate  $\text{Co}_3(\text{PO}_4)_2$ ; Pigment Violet 14, C.I. 77360

*Information on Components / Hazardous Ingredients:*

Tricobalt bis(orthophosphate), Pigment Violet 14 (H302-H351)	100 %	CAS-Nr: 13455-36-2 EINECS-Nr: 236-655-6 EC-Nr:
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*Additional information:*

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## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.  
In case of an accident or if you feel unwell, seek medical advice immediately (show Safety Data Sheet where possible).*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.  
Give artificial respiration in case breathing is not regular or if it has stopped.*

*After skin contact:*

*Wash off with plenty of water and soap. Consult a physician if irritation persists.*

*After eye contact:*

*Do not rub eyes.  
Rinse open eye for several minutes under running water. Should*

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*irritation continue, seek medical advice.*

*After ingestion:*

*Do not induce vomiting.  
Rinse mouth with plenty of water and consult physician.  
Never give anything by mouth to an unconscious person.*

### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
Skin contact: continuous contact can cause redness and irritations.  
Eye contact: can cause slight irritations.*

*Effects:*

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

*Treatment:*

*No further information available.*

---

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*No special hazards.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear suitable protective clothing.*

*Further information:*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

### 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

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

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### 7. Handling and Storage

#### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide good ventilation and/or exhaust at the workplace. Ensure adequate ventilation. Handle and open container with care. Wear adequate protective clothing (see para. 8).*

*Hygienic measures:*

*Wash hands at the end of work. Preventive skin protection recommended.*

*Do not eat or drink during work. Do not smoke.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

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

*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Information on fire and explosion protection:*

*Follow the usual measures for preventive fire protection.*

*Storage class:*

*Further Information:*

#### 7.3. Specific End Use(s)

*Further information:*

*No further information available.*

### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*No occupational exposure limits known.*

*Parameters to be controlled:*

*Cobalt Phosphate (13455-36-2): TWA: 0.1 mg/m<sup>3</sup> (BG, HU, GB; 100%); MAK: 0.1 mg/m<sup>3</sup> (HR, GR; 100%); TWA: 0.05 mg/m<sup>3</sup> (CZ, SK, CH; 100%); MAK: 0.01 mg/m<sup>3</sup> (DK; 100%); TWA: 0.02 mg/m<sup>3</sup> (FI, IS, IR, IT, PL, PT, ES, SE; 100%)*

*Cobalt Metal, dust and fumes (as Co): TWA: 0.1 mg/m<sup>3</sup> (AT, BG, HU GB; 42-52%); TWA: 0.02 mg/m<sup>3</sup> (BE, FI, IS, IR, IT, NL, PL, PT, ES, SE; 42-52%); MAK: 0.1 mg/m<sup>3</sup> (HR, CZ; 42-52%); TWA: 0.05 mg/m<sup>3</sup> (CZ, RO; 42-52%); MAK: 0.01 mg/m<sup>3</sup> (DK; 42-52%); MAK: 0.02 mg/m<sup>3</sup> (NO; 42-52%)*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

*Biological limit value:*

*Cobalt Phosphate (13455-36-2): FR: 15 µg/l (urine), 1 µg/l (blood);  
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*HU: 0.03 mg/g (creatinine in urine); ES: 15 µg/l (urine), 1 µg/l (blood); FI: 130 nmol/l (urine)*

*Cobalt metal, dust and fumes: FR: 15 µg/l (urine), 1 µg/l (blood); HU: 0.03 mg/g (creatinine in urine); ES: 15 µg/l (urine), 1 µg/l (blood); CH: 30 µg/l (urine); FI: 130 nmol/l (urine)*

### 8.2. Exposure Controls

*Technical protective measures:*

*Use appropriate local exhaust ventilation to control airborne levels.*

*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:*

*Dust mask recommended when very dusty (with particle filter P1 or FFP1).*

*Hand protection:*

*Protective gloves recommended in case of prolonged or repeated contact.*

*Protective glove material:*

*Recommended: Protective index 6, corresponding > 480 min. of permeation time according to EN 374.*

*Eye protection:*

*Tightly fitting safety goggles (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: violet*

*Odor: odorless*

*Odor threshold: no information available*

*pH-Value: 7 - 8*

*Melting temperature: not applicable*

*Boiling temperature: not applicable*

*Flash point: not applicable*

*Evaporation rate: not applicable*

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*Flammability (solid, gas):*

*not applicable*

*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not applicable*

*Vapor density:*

*No information available.*

*Density:*

*not determined*

*Solubility in water:*

*insoluble*

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

*not determined*

*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*not determined*

*Explosive properties:*

*not explosive*

*Oxidizing properties:*

*No oxidizing properties*

*Bulk density:*

*0.56 kg/l*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*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.*

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### 10.3. Possibility of Hazardous Reactions

*Hazardous polymerisation will not occur.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat, sparks, open fire and other ignition sources.  
Product is hygroscopic.  
Avoid humidity.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*Strong oxidizing agents.*

### 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 Toxicological Effects

*Acute Toxicity*

*Exposure to the substance or mixture can be harmful.  
Harmful if swallowed. Product is toxic when swallowed, which is unlikely in a normal working environment. Repeated excessive exposure to this compound can cause irritation to eyes and respiratory tract, and allergic rashes in sensitive people.  
Cobalt compounds irritate the eyes weakly. When ingested, these can cause vomiting, diarrhea and hot flushes. Prolonged or excessive inhalation and/or intake of cobalt salts can impair the kidneys, lung and thyroid.*

*LD50, oral:*

*> 1500 mg/kg (rat)*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*Slight irritant effect.*

*Irritant effect on eyes:*

*Slight irritant effect*

*Inhalation:*

*Can cause irritation of the respiratory system.*

*Ingestion:*

*Harmful if swallowed.*

*Sensitization:*

*No relevant data found.*

*Mutagenicity:*

*No relevant data found.*

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### *Reproductive toxicity:*

*No relevant data found.*

### *Carcinogenicity:*

*Cobalt Compound:  
IARC: Group 2B: Possible carcinogenic to humans.*

### *Teratogenicity:*

*No information available.*

### *Specific target organ toxicity (STOT):*

*No relevant data found.*

### *Additional toxicological information:*

*No health impairments known or expected when used according to specifications.*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Not expected to be hazardous for aqueous organisms.*

#### *Fish toxicity:*

#### *Daphnia toxicity:*

#### *Bacteria toxicity:*

#### *Algae toxicity:*

### 12.2. Persistency and Degradability

*The product is not likely to be biodegradable.*

### 12.3. Bioaccumulation

*The product does not contain any components which are likely to bioaccumulate.*

### 12.4. Mobility

*Product is not water soluble.*

### 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. Other Adverse Effects

#### *Water hazard class:*

*Not hazardous.*

#### *Behaviour in sewage systems:*

#### *Further ecological effects:*

*The product is not soluble in water. No negative effects expected.*

#### *AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

#### *Product:*

*If product cannot be reused or recycled, it has to be disposed of according to current local regulations.*

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*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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## 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:*

*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

*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

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## 15. Regulatory Information

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

*Water hazard class:*

*0, not hazardous (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Not applicable.*

*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

*Listed in the following inventories:*

*EINECS (236-655-6), TSCA (US), AICS (AUS), DSL (CA), ENCS (JP), ECL (KR), IECSC (CN), NZIoC (NZ), TCSI (TW)*

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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.*