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

1.1. **Product Identifier**

   **Product Name:** Cobalt Violet Brilliant, dark  
   **Article No.:** 45810

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.de  
   **EMail:** info@kremer-pigmente.de  
   **Importer:** --

1.4. **Emergency No.**

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

2. **Hazards Identification**

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

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

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

   **Classification according to Directive No. 67/548/EC or No. 1999/45/EC**

   **Safety Phrases:**

2.2. **Label Elements**

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

   **Hazard designation:**

   - GHS07-1

   **Signal word:** Warning

   **Hazard designation:**

   - H302 Harmful if swallowed.
Safety Data Sheet
According to regulation (EC) No. 1907/2006 (REACH)

45810 Cobalt Violet Brilliant, dark

Safety designation:
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 If swallowed: Call a poison center or physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients
3.1. Substance
3.2. Mixture

Chemical Characterization: Pigment Violet 14, C.I. 77360

Information on Components / Hazardous Ingredients:
Tricobalt bis(orthophosphate), Pigment Violet 14 (Acute Tox. 4 - H302) 60 - 100 % CAS-Nr: 13455-36-2
EINECS-Nr: 236-655-6
EC-Nr:

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. Consult physician if symptoms persist.

After skin contact: Wash off with plenty of water and soap. Consult a physician if irritation persists.

After eye contact: Rinse open eye for several minutes under running water. Should 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:

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.

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:

Information on fire and explosion protection:

Follow the usual measures for preventive fire protection.

Storage class (VCI):

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):

TLV: 10 mg/m3 inhalable fraction (general dust limit)
TLV: 4 mg/m3 general dust limit inhalable fraction.

Parameters to be controlled:

TLV: 10 mg/m3 inhalable fraction (general dust limit)
TLV: 4 mg/m3 general dust limit inhalable fraction.

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

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, > 480 min. of permeation time accord. EN 374.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Environmental precautions:

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

Form: powder
Color: violet
Odor: product specific
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

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 determined

Oxidizing properties:
9.2. Further Information

Solubility in solvents:
Viscosity, kinematic
Burning class:
Solvent content:
Solid content:
Particle size:

Other 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
Hazardous polymerisation will not occur.

10.4. Conditions to Avoid
Conditions to avoid: No further information available.

Thermal decomposition:

10.5. Incompatible Materials
None known.

10.6. Hazardous Decomposition Products
None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity
LD50, oral: > 15000 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:**

Frequent or prolonged inhalation increases the risk of developing lung diseases.

**Ingestion:**

No information available

**Sensitization:**

No relevant data found.

**Mutagenicity:**

No relevant data found.

**Reproductive toxicity:**

No relevant data found.

**Carcinogenicity:**

No relevant data found.

**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**

No toxicity expected.

- **Fish toxicity:**
- **Daphnia toxicity:**
- **Bacteria toxicity:**
- **Algae toxicity:**

12.2. **Persistency and Degradability**

Not readily biodegradable.

12.3. **Bioaccumulation**

Not relevant.

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.

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 (land transportation).

IMDG/IATA: No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class: not applicable

Hazard no.:
Classification code:
Tunnel restriction code:
IMDG Class (sea):
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

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)

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 is not necessary for this product.

15. 3. Further Information

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.