

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 1

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

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

#### 1.1. Product Identifier

*Product Name:* Paliochrome Copper Bluish

*Article No.:* 50940

#### 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

*E-Mail:* 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 EC Regulation 1272/2008*

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

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

*The material is not subject to classification according to EC lists.*

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to EC Regulation 1272/2008*

*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

### Composition/Information on Ingredients

next page: 2

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 2

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

### 3.

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Al-Mn-Doped iron oxide

*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:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.*

*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:*

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

*Treatment:*

*Symptomatic treatment (decontamination, vital functions), no specific antidote known.*

### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Extinguishing powder, foam.*

*Unsuitable extinguishing media:*

*Carbon dioxide (CO<sub>2</sub>)*

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

*Special hazards:*

*No special hazards.*

#### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

next page: 3

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 3

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

---

### 6. Accidental Release Measures

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

*Personal precautions:*

*Avoid formation of dust.*

#### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

#### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Clean up with suitable appliance and dispose adequately.*

#### 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.  
Avoid contact with eyes, skin and clothing.*

*Hygienic measures:*

*Wash hands before breaks and after work.*

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

*Storage conditions:*

*No special measures required.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*No special measures necessary.*

*Storage class (VCI):*

*Further Information:*

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

*Further information:*

---

### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

next page: 4

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 4

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*No further measures, see Section 7.*

*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.*

*Wash hands before breaks and after work.*

*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:*

*Chemical protective gloves (EN 374 (Europe), F739 (US)).*

*The manufacturer's directions for use should be observed because of the great diversity of types.*

*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:*

---

## 9. Physical and Chemical Properties

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

*Form:* *small plates*

*Color:* *copper*

*Odor:* *odorless*

*Odor threshold:*

*No information available.*

*pH-Value:* *5 - 7 (100 g/l; 20°C)*

*Melting temperature:*

*The substance / product decomposes.*

*Boiling temperature:*

*not applicable*

next page: 5

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 5

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*Flash point:*

*not applicable*

*Evaporation rate:*

*not applicable*

*Flammability (solid, gas):*

*not flammable*

*Upper explosion limit:*

*no information available*

*Lower explosion limit:*

*no information available*

*Vapor pressure:*

*not applicable*

*Vapor density:*

*No information available.*

*Density:*

*4.9 g/cm<sup>3</sup> (20°C)*

*Solubility in water:*

*insoluble*

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

*not applicable*

*Auto-ignition temperature:*

*Product is not auto-ignitable.*

*Decomposition temperature:*

*No decomposition if used according to specifications.*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*Hygroscopy: not hygroscopic*

---

next page: 6

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 6

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

### 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

*None if handled and stored according to specifications.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*None known.*

#### 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: No information available.*

*LC50, inhalation: No information available.*

*Primary effects*

*Irritant effect on skin: Non irritating (rabbit)*

*Irritant effect on eyes: Non-irritating to eyes (rabbit)*

*Inhalation: No information available.*

*Ingestion: No information available*

*Sensitization: No sensitizing effects known.*

*Mutagenicity: No mutagenic effects observed.*

*Reproductive toxicity: No data available.*

*Carcinogenicity:*

next page: 7

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 7

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*No negative effects.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: repeated exposure can cause pulmonary problems.*

*Additional toxicological information:*

*By analogy with a product of similar composition.*

---

## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*No data available.*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*No data available.*

*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.*

*Not readily biodegradable.*

### 12.3. Bioaccumulation

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

### 12.4. Mobility

*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:*

*Behaviour in sewage systems:*

*No impairment of the biodegradability of active sludge expected when small amounts are discharged in biological sewage plants. Treatment and discharge of waste water into biological treatment plant should be carried out according to official national and local regulations.*

next page: 8

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 8

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*Further ecological effects:*

*No special effects or hazards known.*

*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:*

*Uncontaminated packaging may be recycled.*

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

*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 no.:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

#### 14.4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

next page: 9

# Material Safety Data Sheet

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



## 50940 Paliochrome Copper Bluish

Page 9

Revised edition: 16.06.2016

Version: 1

Printed: 14.06.2016

---

*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*

*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**

*none*

---

**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.*