

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 1

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

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

#### 1.1. Product Identifier

*Product Name:* Copper Blue

*Article No.:* 45364

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

*Identified uses:*

*Industrial application.*

*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*

H412 Harmful to aquatic life with long lasting effects.  
Cat.: 3  
*Chronic aquatic toxicity, category 3*

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

R52 Harmful to aquatic organisms.  
R53 May cause long-term adverse effects in the aquatic environment.

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to EC Regulation 1272/2008*

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

*Hazard designation:*

*Signal word:*

*Hazard designation:*

H412 Harmful to aquatic life with long lasting effects.

*Safety designation:*

next page: 2

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 2

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

P273

Avoid release to the environment.

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:*

*Tricopper(II) phosphate, CAS No. 7798-23-4, EINECS 232-254-5  
Tricopper bis(orthophosphate)*

*Hazardous Ingredients:*

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Take person away from hazardous area.  
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.  
If irritation continues consult a physician.*

*After eye contact:*

*Rinse open eye for several minutes under running water. Should  
irritation continue, seek medical advice.*

*After ingestion:*

*Never give anything by mouth to an unconscious person.  
If symptoms persist consult physician.*

### 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:*

*Treat symptomatically.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

*Water with full jet.*

next page: 3

# Material Safety Data Sheet

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



**45364 Copper Blue**

Page 3

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

## 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:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

*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:*

*Wear protective clothing.*

*Keep unprotected persons out of danger zone.*

*Ensure adequate ventilation.*

### 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:*

*Take up mechanically and collect in suitable containers for disposal.*

### 6.4. Reference to other Sections

*See Section 13 for information on disposal.*

*Protective clothing, see Section 8.*

---

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid formation of dust.*

*Hygienic measures:*

*Avoid contact with skin, eyes and clothing. Do not inhale dust.*

### 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:*

*Storage: In the original container.*

*Information on fire and explosion protection:*

*Follow the usual measures for preventive fire protection.*

next page: 4

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 4

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

*Storage class (VCI):*

*13; Non combustible solids*

*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):*

*No exposure limits for this product.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*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:*

*Do not inhale dust. Do not eat, drink or smoke while working.  
Wash hands before breaks and at the end of work.  
Avoid contact with skin, eyes and clothing.*

*Respiratory protection:*

*None required under normal operating conditions.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Nitrile rubber (NBR), polyvinyl chloride (PVC).  
Please note the manufacturers' detailed statements, especially  
about the minimum thickness and the minimum breakthrough time.*

*Eye protection:*

*Safety glasses (EN 166)*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

---

## 9. Physical and Chemical Properties

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

*Form: powder*

*Color: blue*

*Odor: odorless*

next page: 5

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 5

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

*Odor threshold:*

*No information available.*

*pH-Value:*

*5 - 6 (10 g/l, 20°C)*

*Melting temperature:*

*not determined*

*Boiling temperature:*

*not determined*

*Flash point:*

*not applicable*

*Evaporation rate:*

*No information available.*

*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:*

*not determined*

*Solubility in water:*

*3 g/l (20°C)*

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

*Auto-ignition temperature:*

*Product is not auto-ignitable.*

*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*Product does not present an explosion hazard.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*ca. 550 kg/m<sup>3</sup>*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

next page: 6

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 6

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

---

### 10. Stability and Reactivity

#### 10.1. Reactivity

*No decomposition if used according to specifications.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*Unknown.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No decomposition if used according to specifications.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*No information available.*

#### 10.6. Hazardous Decomposition Products

*No information available.*

#### 10.7. Further Information

---

### 11. Toxicological Information

#### 11. 1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral:* > 2000 mg/kg (rat)

*LD50, dermal:*  
*No information available.*

*LC50, inhalation:*  
*No information available.*

*Primary effects*

*Irritant effect on skin:*  
*No irritant effect known.*

*Irritant effect on eyes:*  
*No irritant effect known.*

*Inhalation:*  
*No information available.*

*Ingestion:*  
*No information available*

*Sensitization:*

next page: 7

# Material Safety Data Sheet

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



## 45364 Copper Blue

Page 7

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

*No sensitizing effects known.*

*Mutagenicity:*

*No data available.*

*Reproductive toxicity:*

*No negative effects.*

*Cancerogenity:*

*No negative effects.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No data available.*

*Additional toxicological information:*

*Aspiration hazard: not applicable*

---

## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: 10 - 100 mg/l (96h)*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*no information available*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*Inorganic substance. Biological degradability is not affected.*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1 %.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not let product enter waterways or sewage system.  
Avoid subsoil penetration. Prevent product from entering drains.  
Do not contaminate surface water.*

*AOX Value:*

---

# Material Safety Data Sheet

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



**45364**      **Copper Blue**

Page 8

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*This material may only be discarded by an authorized disposal company.*

*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 no.:*

*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

*Not classified as environmentally hazardous.*

### 14.6. Special Precautions for User

*not applicable*

next page: 9



# Material Safety Data Sheet

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



**45364**      **Copper Blue**

Page 9

Revised edition: 24.11.2015

Version: 3.0

Printed: 30.03.2016

---

**14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code**

*not applicable*

**14.8. Further Information**

*Not classified as a dangerous good under transport regulations.*

---

**15. Regulatory Information**

**15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture**

*Water hazard class:*

*2, hazardous for water*

*Local regulations on chemical accidents:*

*Seveso II: does not apply*

*Seveso III: does not apply*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

*Not applicable.*

**15.2. Chemical Safety Assessment**

*No information available.*

**15.3. Further Information**

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): 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.*