

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 1

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Version: 1

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

#### 1.1. Product Identifier

*Product Name:* Cinnabar, very fine

*Article No.:* 10624

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

*Identified uses:* Laboratory chemicals, manufacture of substances

*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*

H317 Skin sensitization, hazard category 1  
May cause an allergic skin reaction.  
Cat.: 1

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

R31 Contact with acids liberates toxic gas.  
Irritating (Xi) R43 May cause sensitization by skin contact.

*Safety Phrases:*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to EC Regulation 1272/2008*

*Hazard designation:*

*Signal word:*

*Hazard designation:*

H317 May cause an allergic skin reaction.  
EUH031 Contact with acids liberates toxic gas.

*Safety designation:*

Wear protective gloves/ clothing/ eye/ face protection

next page: 2

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 2

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

P280

P333+P313

If skin irritation or rash occurs: Get medical attention.

*Hazardous components for labelling:*

### 2.3. Other Hazards

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

*Chemical Characterization:* Mercuric sulphide. Pigment Red 106, C.I. 77766

*Hazardous Ingredients:*

Mercury(II) sulfide (Xi; R31-43; H317-EUH031)	100 %	CAS-Nr: 1344-48-5
		EINECS-Nr: 215-696-3
		EC-Nr:

*Additional information:*

*Exempted from the mandatory REACH Registration.*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Consult physician.*

*After inhalation:*

*Take affected person to fresh air.  
If breathing ceases, apply artificial respiration or oxygen.  
Seek medical advice immediately.*

*After skin contact:*

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

*After eye contact:*

*Rinse eyes with water.*

*After ingestion:*

*Never give anything by mouth to an unconscious person.  
Rinse mouth with plenty of water and 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:*

*No further information available.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

next page: 3

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 3

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

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*Extinguishing powder.*

*Unsuitable extinguishing media:*

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

*Special hazards:*

*In case of fire: formation of sulfur oxides, mercury oxides.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

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## 6. Accidental Release Measures

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

*Personal precautions:*

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

*Avoid formation of dust.*

*Wear protective clothing.*

### 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.*

*Do not rinse with water.*

### 6.4. Reference to other Sections

*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:*

*Avoid contact with eyes and skin.*

*Avoid formation and deposition of dust. Provide adequate ventilation.*

*Hygienic measures:*

*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.*

*Protect from direct exposure to light.*

*Avoid any contact with water during storage.*

*Requirements for storage areas and containers:*

*Information on fire and explosion*

next page: 4

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 4

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

*protection:*

*Storage class (VCI):*

13; Non combustible solids

*Further Information:*

Do not store together with: acids.

### 7.3. Specific End Use(s)

*Further information:*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

Mercury(II) sulfide (CAS 1344-48-5): 0.02 mg/m<sup>3</sup> (TRGS 900)

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

*Biological limit value:*

Mercury(II) sulfide (1344-48-5): 25 µg/g creatinine (urine; TRGS 903)

### 8.2. Exposure Controls

*Technical protective measures:*

Provide adequate ventilation.

*Personal Protection*

*General protective measures:*

Remove contaminated clothing. Wash hands after work.  
Keep away from foodstuffs, beverages and feed.

*Respiratory protection:*

Dust mask recommended when very dusty: with particle filter N100 (US) or P3 (EC EN 143).

*Hand protection:*

Protective gloves (EN 374)

*Protective glove material:*

*Eye protection:*

Safety glasses (EN 166)

*Body protection:*

Protective clothing, chemical resistant.

*Environmental precautions:*

Do not allow entering sewerage system.

## 9. Physical and Chemical Properties

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

next page: 5

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 5

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

---

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>red, medium</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not available</i>
<i>Melting temperature:</i>	<i>583.5°C (lit.)</i>
<i>Boiling temperature:</i>	<i>584°C (1013 hPa)</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>No information available.</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>8.1 g/cm<sup>3</sup> (20°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>no information available</i>
<i>Auto-ignition temperature:</i>	<i>No information available.</i>
<i>Decomposition temperature:</i>	<i>No data available.</i>
<i>Viscosity, dynamic:</i>	<i>not applicable</i>
<i>Explosive properties:</i>	<i>not available</i>
<i>Oxidizing properties:</i>	<i>No information available.</i>
<i>Bulk density:</i>	<i>1.07 g/l</i>

next page: 6

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 6

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

---

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

*No further information.*

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### 10. Stability and Reactivity

#### 10.1. Reactivity

*Develops toxic gases upon contact with acids.*

#### 10.2. Chemical Stability

*Stable if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*No information available.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Protect from light.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*Strong oxidizing agents.*

*Acids, halogens, metal oxides.*

#### 10.6. Hazardous Decomposition Products

*In the event of fire: see chapter 5.*

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### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*No information available.*

*LD50, oral:*

*LD50, dermal:*

*LC50, inhalation:*

*Primary effects*

*Irritant effect on skin:*

*No information available*

*Irritant effect on eyes:*

*No information available.*

*Inhalation:*

next page: 7

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 7

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

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*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

*No data available.*

*Reproductive toxicity:*

*No data available.*

*Cancerogenity:*

*IARC: 3, group 3: not classifiable*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*Single exposure: no information available.*

*Repeated exposure: no information available.*

*Additional toxicological information:*

*Aspiration hazard: not applicable*

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## 12. Ecological Information

### 12.1. Aquatic Toxicity

*No information available.*

*Fish toxicity:*

*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*No information available.*

### 12.3. Bioaccumulation

*No information available.*

### 12.4. Mobility

*No information available.*

### 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:*

*Do not let run into surface waters, waste water or soil.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*There are no data available on the product itself.*

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

next page: 8

# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 8

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

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*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations. These products have to be dissolved in a flammable solvent or mixed with it and then burnt in an incinerator for chemicals (with afterburner and exhaust washer).*

*European Waste Code (EWC):*

*Uncleaned packaging:*

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

*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 (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

next page: 9



# Material Safety Data Sheet

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



## 10624 Cinnabar, very fine

Page 9

Revised edition: 11.04.2016

Version: 1

Printed: 11.04.2016

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*Not classified as environmentally hazardous.*

### 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

### 14. 8. Further Information

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## 15. Regulatory Information

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

*Water hazard class:*

*3, very hazardous for water (self-assessment)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: forbidden and/or restricted as antifouling agent, for the preservation of wood, for the impregnation of textiles and yarn, for water treatment.*

*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

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Exempted applications or categories of use: other pesticides including biocidal products; pesticides; pesticides in agricultural chemicals.*

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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.*