

**47100 Bone Black**

Edition: 04.04.2003

---

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

Product Information:

Product Name: Bone Black  
Article no.: 47100  
Application: Artists' and Restauration Material

Company: Kremer Pigmente GmbH & Co. KG  
Hauptstrasse 41-47, D - 88317 Aichstetten  
Tel. +49 7565 91120 Fax. +49 7565 1606  
www.kremer-pigmente.de, kremer-pigmente@t-online.de

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

CAS No: 8021-99-6  
EINECS No.: 2324212

**3. HAZARD IDENTIFICATION**

Not necessary.

**4. FIRST AID MEASURES**

After inhalation: Take affected person to fresh air and rest. In case of discomfort consult physician.  
After skin contact: Wash affected skin with soap and water. Change contaminated clothing.  
After eye contact: Immediately rinse open eye for at least 15 minutes under running water  
After ingestion: Consult physician.

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Foam, CO<sub>2</sub>, water mist and dry extinguishing media.  
Special exposure hazards: Carbon dioxide may develop. Dispose of debris properly.

**6. ACCIDENTAL RELEASE MEASURES**

Person-related safety measures: Avoid skin and eye contact. Avoid dust formation.  
Environmental protective measures: Do not allow product to enter drains or waterways - dispose of contaminated water / firefighting water properly.

## 47100 Bone Black

Edition: 04.04.2003

---

Methods for cleaning up/  
absorption: Clean up mechanically, if possible with vacuum cleaner.  
Avoid dust formation.

### 7. HANDLING AND STORAGE

Handling: Avoid formation and deposition of dust. Provide good ventilation when handling large quantities. No special measures necessary if stored and handled as prescribed.

Information of fire and explosion  
protection: Product is combustible. Keep away from ignitable material. Take precautionary measures against electrostatic charging.

Storage: Store in a cool and dry place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General protective measures: Do not inhale dust.  
Respiratory protection: Wear a dust mask when handling large quantities.  
TLV-TWA = 6 mg/m<sup>3</sup>  
Hand protection: Not required.  
Eye protection: Safety glasses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: powder  
Color: black  
Odor: odorless

Changes in physical state:

Melting point/Melting range: not applicable (n.a.)

Boiling point/Boiling range: n.a.

Flash point: n.a.

Vapour pressure: n.a.

Density: (20°C) 2.3 - 2,5 g/cm<sup>3</sup>

Bulk density: 0.35 - 0.55 g/cm<sup>3</sup> Method: DIN 53217

Water solubility: suspensible

### 10. STABILITY AND REACTIVITY

Thermal decomposition/  
Hazardous reactions: 350°C (smoulder). CO, CO<sub>2</sub> (in case of combustion).

**47100 Bone Black**

Edition: 04.04.2003

---

**11. TOXICOLOGICAL INFORMATION**

The product is not toxic according to present data.

Slight irritation of mucous membranes may occur in case of handling product incorrectly (dust formation).

**12. ECOLOGICAL INFORMATION**

Product is insoluble in water, therefore may be separated mechanically in sewage plants. Do not let product enter waterways.

**13. DISPOSAL CONSIDERATIONS**

In accordance with current regulations, product may be taken to waste disposal site after consultation with site operator and/or with the responsible authority.

**14. TRANSPORT INFORMATION**

Not considered hazardous material according to transportation regulations.

**15. REGULATORY INFORMATION**

Designation according to EC guidelines:      The material is not subject to classification according to the EEC Directive 67/548/EEC.  
It is a natural product.

Water hazard class:                                      0, non-hazardous

**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 therefore not be construed as guaranteeing specific properties.

**47100 Bone Black**

Edition: 04.04.2003

Tested according to ASTM D 5517-1/96 rev.

<b>Heavy Metal</b>	<b>Method</b>	<b>mg/l</b>
Antimony (Sb)	DIN 38 406 E 2 (AAS)	< 0,002
Arsenic (As)	DIN 38 405 D 18 (AAS)	0,004
Barium (Ba)	DIN 38 406 E 22 (ICP)	1,45
Beryllium (Be)	DIN 38 406 E 22 (ICP)	< 0,002
Lead (Pb)	DIN 38 406 E 6 (AAS)	0,090
Cadmium (Cd)	DIN 38 406 E 19 (AAS)	< 0,001
Chromium (Cr)	DIN 38 406 E 10 (AAS)	< 0,005
Cobalt	DIN 38 406 E 24 (AAS)	< 0,005
Copper	DIN 38 406 E 7 (AAS)	< 0,005
Manganese	DIN 38 406 E 22 (ICP)	0,11
Molybdän	AAS	< 0,005
Nickel	DIN 38 406 E 11 (AAS)	0,040
Osmium	DIN 38 406 E 22 (ICP)	< 0,01
Mercury	DIN 38 406 E 12 (AAS)	< 0,02
Selenium	DIN 38 406 D 23 (AAS)	< 0,002
Silver	DIN 38 406 E 18 (AAS)	0,015
Thallium	AAS	0,005
Vanadium	DIN 38 406 E 22 (ICP)	0,010
Tin	AAS	< 0,005
Zinc	DIN 38 406 E 22 (ICP)	< 0,01