

23493 - Gubbio RedRevised edition: 10.07.2003

1. Identification of the Substance/Preparation and of the Company/Undertaking*Identification of the Product*

Product Name: Gubbio Red
Article No.: 23493
Use of the Substance/Preparation: Artists' and Restoration Material

Company

Company: Kremer Pigmente GmbH & Co. KG
Address: Hauptstrasse 41-47, D 88317 Aichstetten
Tel/Fax: Tel +49 7565 91120, Fax +49 7565 1606
Internet: www.kremer-pigmente.de, kremer-pigmente@t-online.de
Emergency No.: +49 7565 91120, Mon-Fri 8:00 - 17:00

2. Hazard Identification

Hazard designation: Product is not considered to be hazardous according to EC Guideline 67/548/EWG.

3. Composition/Information on Ingredients

Chemical Characterization: Azo condensation.
Pigment Brown 23, C.I. 20060
CAS No.: 35869-64-8

4. First Aid Measures

After inhalation: Take affected person to fresh air and seek medical advice in case of complaints.
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. Consult physician.
After ingestion: Rinse mouth with plenty of water and consult physician.

5. Fire-Fighting Measures

Suitable extinguishing media: Soak with plenty of water, if possible using wetting agents.
Unsuitable extinguishing media: Carbon dioxide, foam, dry extinguishing powder.
Protective equipment: Use self-containing breathing apparatus.
Special hazards: In case of fire: formation of carbon and nitrogen oxides.
Formation of other toxic decomposition products are also possible in the event of fire.
Further information: Avoid contamination of sewage system, open water ways and ground water.
Contaminated extinguishing water and debris should be disposed of according to local regulations.
Cool exposed containers with water spray.

6. Accidental Release Measures

Personal precautions: Avoid contact with skin, eyes and clothing. Do not ingest or inhale.

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| Environmental precautions: | Prevent contamination of soil, drains and surface waters. |
| Methods of cleaning/absorption: | Take up mechanically and collect in suitable container for disposal. Avoid dust formation. |

7. Handling and Storage*Handling*

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| Instructions on safe handling: | Avoid dust formation. |
| Information on fire and explosion protection: | Keep away from sources of ignition - do not smoke. Take precautionary measures against static discharges. |

Storage

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| Storage conditions: | Store in tightly sealed containers in a dry and cool room. |
| Storage class (VCI): | 11; Combustible solids |

8. Exposure Controls/Personal Protection

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| Additional information about design of technical systems: | Provide adequate ventilation in case of dust formation. |
| Components with workplace control parameters (Germany): | MAC-Value: 1.5 mg/m ³ air-borne fraction (general dust limit) MAC-Value: 4 mg/m ³ inhalable fraction (general dust limit) |

Personal protective equipment

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| General protective measures: | The usual precautionary measures are to be adhered to when handling chemicals. |
| Respiratory protection: | Respiratory protection (e.g. FFP 2). |
| Hand protection:: | PVC gloves recommended. |
| Eye protection: | Safety glasses with protective shields (EN 166). |

9. Physical and Chemical Properties

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|-----------------------|------------------------|
| Form: | powder |
| Color: | brown |
| Odor: | odorless |
| Melting temperature: | > 300°C |
| Boiling temperature: | not applicable |
| Flash point: | not applicable |
| Ignition temperature: | 580°C (BAM) |
| Vapor pressure: | not applicable |
| Density: | 1.59 g/cm ³ |
| Solubility in water: | insoluble |
| pH-Value: | 5.5-8.5 |
| Viscosity dynamic: | not applicable |

10. Stability and Reactivity

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| Thermal decomposition/Conditions to be avoided: | Stable when used according to specifications. No exothermic reaction up to 350°C (Lütholf Method, 2.5°C/minute). |
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Products to be avoided: Strong oxidizing agents.
Hazardous decomposition products: In case of fire: formation of carbon and nitrogen oxides. Formation of HCl and other toxic gases and vapors is also possible.

11. Toxicological Information

Acute toxicity

LD50, oral: > 5000 mg/kg (rat)

Primary effects

Irritant effect on skin: Non irritating (rabbit)

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

Further toxicological effects: No mutagenic effects observed.

12. Ecological Information

Environmental Behaviour: The product is not classified as environmentally hazardous.

Further information

Water hazard class: 1

13. Disposal Considerations

Product: In accordance with current regulations, product may be taken to an incineration plant.

If possible reuse product.

Waste Code Nr.: 061303

Uncleaned packaging: Dispose according to product.

14. Transport Information

Further information: Not classified as a dangerous good under transport regulations.

15. Regulatory Information

Designation according to EC guidelines: The material is not subject to classification according to EC lists.

Water hazard class: 1, slightly hazardous for water

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.

Organically bound chlorine: 12.5 %