

**Safety Data Sheet****245120/01**

Date of issue: November 29, 2004

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Revised: February 21, 2003

**\*1. Identification of the substance/preparation and the company****BAYFERROX (Crocus Martis)**

Application:  
Colorants (pigments and dyestuffs), inorganic

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In case of emergency:  
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**2. Composition/information on ingredients**

C.I. Pigment red 101 Fe<sub>2</sub>O<sub>3</sub>, CAS No.: [1309-37-1]

**3. Hazards identification**

Hazard warning not required.

**4. First-aid measures**

Upon inhalation of aerosol/vapour/dust: Take the patient into the fresh air; if there is difficulty in breathing, medical advice is required.

Skin contact: Cleansing with plenty of water, soap or other non-irritating cleansing agents.

Eye contact: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. Eventually a doctor (or eye specialist) should be consulted.

Upon swallowing: If product is swallowed, make the patient drink water. Wash out mouth repeatedly. If the patient feels unwell, seek medical advice.

**5. Fire-fighting measures**

Extinguishing media: No restriction in fire situations.

Firemen have to wear self-contained breathing apparatus.

**6. Accidental release measures**

Take up mechanically; avoid dust formation.  
For further disposal measures see chapter 13.

**\*7. Handling and storage**

Keep container dry and tightly closed in a cool and well ventilated place.

VCI storage class: 13

**8. Exposure controls/Personal protection**

Wear suitable protective clothing, protective goggles and, if necessary, dust mask during work. Chemical-resistant protective gloves according to DIN/EN 374 are recommended.

(to be continued)

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**BAYFERROX****8. Exposure controls/Personal protection** (Continuation)

Do not breathe dust.  
Avoid contact with eyes and skin.  
Keep away from food and drink stuffs.  
Do not eat, drink or smoke at work.  
Wash hands before breaks and at end of work and use skin-protecting ointment.

**9. Physical and chemical properties**

tested in accordance with

Form: powdery  
Colour: red  
Odour: odourless  
Melting point: > 1000 °C  
Density: approx. 5 g/cm<sup>3</sup> at 20 °C DIN ISO 787/10  
Solubility in water: insoluble  
pH value: approx. 5-8 at 50 g/l water in aqueous suspension  
DIN ISO 787/9

**10. Stability and reactivity**

Thermal decomposition: No decomposition when used properly.

**11. Toxicological information**Acute oral toxicity (LD<sub>50</sub>): above 5000 mg/kg °  
tested in ratsSkin irritation: non-irritant °  
tested on rabbitsEye irritation: non-irritant °  
tested on rabbit eyes

° Test results of a similarly composed product

According to the present state of knowledge Bayferrox pigments are physiologically harmless; under extreme conditions, however, mechanical action arising from eye contact (action of dust) may cause slight temporary irritation of the mucosa.

**12. Ecological information**

Ecotoxicological reports on a comparable product show the following results:

Acute fish toxicity: LC<sub>0</sub> = > 1000 mg/l  
Test species: Golden orfe (*Leuciscus idus*)Acute toxicity for daphnia: EC<sub>0</sub> = >10000 mg/l  
Test species: *Daphnia magna* Duration of test: 48 hAcute bacterial toxicity:  
No harmful effect on *Pseudomonas putida*: > 1000 mg/l

As the product is practically insoluble in water, it is separated in almost any filtration and sedimentation process.

(to be continued)

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**BAYFERROX****12. Ecological information** (Continuation)

Water pollution class (WGK): not generally hazardous to water  
WGK = Classification in accordance with the German Water Resources Act  
(in accordance with Annex 1 to the Directive on Water-Hazardous Substances)

**13. Disposal considerations**

The relevant EU Directives and local, regional and national regulations must be complied with.

Examine possibilities for re-utilization.

May be disposed of in approved landfills provided local regulations are observed.

For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. It is among the tasks of the polluter to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste Catalogue.

**14. Transport information**

GGVSee/IMDG Code: -- UN No.: -- EmS: --  
PG: -- MPO: --  
GGVSE: Class -- PG: -- RID/ADR: Class -- PG: --  
ADNR: Class -- PG: -- Cat -- ICAO/IATA-DGR: not restr.  
Declaration for land shipment: --  
Declaration for sea shipment: --  
Declaration for shipment by air: --  
Other information:  
Not dangerous cargo. Keep dry. Keep separated from foodstuffs.

**15. Regulatory information**

No labelling is required in accordance with the EEC directives.

**16. Other information**

All components of this product are listed in the European Inventory of Existing Commercial Chemical Substances (EINECS) under the provisions laid down in the corresponding EEC-Directive.

Swiss law of poison: class of poison free; BAG-T-No. 698000.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance.

Replaces version dated: September 17, 2002