

Safety Data Sheet**245341/01**

Date of issue: November 29, 2004

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Revised: February 21, 2003

1. Identification of the substance/preparation and the company*BAYFERROX 318 M**

Application:

Colorants (pigments and dyestuffs), inorganic

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In case of emergency:

Germany: +49 214 30 99300 (Sicherheitszentrale Bayer)

United Kingdom: +44 1635 563000 (Bayer UK Ltd., Newbury)

2. Composition/information on ingredientsC.I. Pigment black 11 Fe₃O₄, CAS No.: [1317-61-9]**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 318 M (Black Iron Oxide)**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:	black		
Odour:	odourless		
Melting point:	> 1000 °C		
Density:	approx. 4,6 g/cm ³	at 20 °C	DIN ISO 787/10
Solubility in water:	insoluble		
pH value:	5-8 at 50 g/l water in aqueous suspension		DIN ISO 787/9

10. Stability and reactivity

At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.

Hazardous decomposition products: No hazardous decomposition products observed.

Hazardous reactions: No hazardous reactions observed.

11. Toxicological information

Toxicological studies of a comparable product

Acute toxicity:

LD₅₀ oral, rat: > 5000 mg/kg

Skin and mucous membrane compatibility, rabbit:

Skin 24 hours exposure - non-irritant

Eyes - non-irritant

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: LC₀ = > 1000 mg/l

Test species: Golden orfe (*Leuciscus idus*)

Acute bacterial toxicity:

No harmful effect on *Pseudomonas fluorescens*: > 1000 mg/l

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

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BAYFERROX 318 M**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 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: December 18, 2002