



Safety Data Sheet

411144/02

Date of issue: May 18, 2002

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1. Identification of the substance/preparation and the company

BAYOXIDE E 33

Bayer AG, LS-M/S Umwelt und Produktsicherheit
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In case of emergency: +46 (0) 214 309 9300 (Werkfeuerwehr Bayer Leverkusen)

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2. Composition/information on ingredients

FeOOH CAS-Nr. 20344-49-4

3. Hazards Identification

The product is not hazardous to health or the environment according to EU criteria.

4. First-aid measures

In case of eye contact rinse carefully and thoroughly with water and seek medical advice. In case of skin contact wash afflicted areas thoroughly with soap and plenty of water.

5. Fire-fighting measures

Product is non-flammable and will not support combustion.
Any suitable extinguishing media may be used for fire fighting with the product present.
Consideration should be given to the possibility of toxic smoke from containers involved in any fire.

6. Accidental release measures

Take up mechanically, avoiding dust formation. For further disposal measures see section 13.

7. Handling and storage

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

Ensure adequate ventilation or exhaust ventilation in the working area. Take measures to prevent dust formation; remove any dust with air extractors where it is formed.
When handling observe the usual precautionary measures for chemicals.

Protection against fire and explosion: Product is not combustible.

8. Exposure controls/Personal protection

UK Occupational Exposure Limit (OEL), dust – not otherwise specified

| | |
|-----------------|----------------------|
| | 8hr TWA |
| Inhalable dust | 10 mg/m ³ |
| Respirable dust | 4 mg/m ³ |

Wear suitable protective clothing, protective goggles and, if necessary, dust mask during work. Chemical-resistant protective gloves are recommended.

When handling observe the usual precautionary measures for dust-forming products.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work. Keep working clothes separate. Change heavily soiled clothing.



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9. Physical and chemical properties

| | | |
|----------------------|---|----------------|
| Form: | Granules | |
| Colour: | Brown | |
| Odour: | Odourless | |
| Melting point: | >1000°C | |
| Density: | Approx 3.6 g/cm ³ at 20°C | DIN ISO 787/10 |
| Solubility in water: | Insoluble | |
| pH value: | 3.5 – 7.5 at 50 g/l water in aqueous suspension | DIN ISO 787/9 |

10. Stability and reactivity

Thermal decomposition: From approx. 180°C conversion into Fe₂O₃
Hazardous decomposition products: No hazardous decomposition products observed.
Hazardous reactions: No hazardous reactions observed.

11. Toxicological Information

Acute toxicity:
LD₅₀ oral, rat: more than 5000 mg/kg

Skin and mucous membrane compatibility, rabbit:
Skin 24 hours exposure – non-irritant
Eyes – non-irritant

(Tests at Bayer AG's Institute for Toxicology)

Our experience shows that Bayoxide E33 can be handled without risk to health if used properly and if the usual precautions of industrial hygiene are observed.

12. Ecological Information

Acute fish toxicity: Golden orfe (*Leuciscus idus*) LC₀ : > 1000 mg/l

Acute bacterial toxicity:
No harmful effect on *Pseudomonas putida*: > 1000 mg/l

(Examinations made at the Institute of environmental analysis and evaluation of Bayer AG)

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

13. Disposal considerations

Examine possibilities for re-utilisation.

Relevant EC Directives and local, regional and national regulations must be compiled with.
May be disposed of in approved landfills provided local regulations are observed.

For disposal within the EC, the appropriate codes from the European Waste Catalogue (EWC) should be used.

After final product withdrawal, all residues must be removed from containers (drip free, powder free or paste free). Containers must be recycled in compliance with national legislation and environmental regulations.

14. Transport information

No regulatory requirements.
Not dangerous cargo.
Keep separate from foodstuffs.



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15. Regulatory information

No labelling for the product is required by the Chemicals (Hazard information and Packaging for Supply) Regulations 2002 (CHIP 3), in accordance with EC Directives.

16. Other information

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

This Safety Data Sheet (411144/02) contains amendments in the following sections: 1, 5, 6, 8, 9, 13, 14, 15, 16

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 data does not signify any warranty with regard to the products' properties.