

Safety Data Sheet

Ferric (hydr)oxide

1. Identification of the substance and manufacturer

Chemical name of the substance:

Ferric (hydr)oxide

Trade name:

Ferric (hydr)oxide, iron sludge (synonyms: ferric oxide hydroxide, iron(III) oxide hydroxide, iron(III) oxide trihydrate, hydrated iron(III) oxide, diiron trioxide trihydrate)

EC nr: 215-168-2; **CAS nr:** 1309-37-1

REACH nr: 01-2119457614-35-xxxx

The full registration numbers of individual manufacturers are available at www.aquaminerals.com

Uses of the substance:

Dephosphatisation and odour control in wastewater treatment, desulphurisation in biogas production, desulphurisation in household-waste fermentation, raw material in brick industry, and building material in infrastructural works.

Identification of distributor of substance:

AquaMinerals B.V. (Supplier)

Origin of ferric (hydr)oxide:

The substance is a product of the production of drinking water from ferrous groundwater, and of the production of drinking water from surface water.

Telephone number in case of emergency:

European emergency number: 112

2. Hazards

The substance is not classified as hazardous under the CLP regulations.

3. Composition/information on ingredients

Main ingredient: Ferric (hydr)oxide

Composition (percentage by weight based on dry substance):

Fe ₂ O ₃ ·3H ₂ O	:	80	-	100%
Inert (sand)	:	1	-	10%
Ca	:	<0.1	-	5%
P	:	0.1	-	4%
Al	:	<0.1	-	0.3%
Mg	:	<0.1	-	0.3%
Mn	:	<0.1	-	4%
Dry matter	:	7.5	-	30%

4. First-aid measures

Under normal use: N/a

Other measures:

Ingestion: In very large quantities, consult doctor
 Inhalation: N/a
 Skin contact: N/a
 Eye contact: Rinse with water; consult doctor

5. Fire-fighting measures

Ferric (hydr)oxide is non-combustible. All commonly available extinguishing media can be used.

6. Accidental release measures

Rinse with water.



7. Handling and storage

Handling: No special measures.
Storage: Store preferably in tanks, bunker/silos or, in the case of dewatered material, by stock-piling using retention walls.

8. Exposure controls/personal protection

Inhalation: None
Skin contact: None
Eye contact: Safety glasses
Dust emission: Dust mask P1 or P3

9. Physical and chemical properties

Physical state: Dewatered or aqueous suspension
Colour: Yellow to reddish brown
Odour: Neutral
Melting point (Fe₂O₃): 1565°C
Relative density: 1.05 - 1.20
Water solubility: < 1 µg/l Fe at 20°C
pH (dissolved) 7-8

10. Stability and reactivity

Stability: the substance is stable.

11. Toxicological information

The substance is not toxic.

Detailed information is contained in the Safety Data Report: Ferric(hydr)oxide. This document is available on request from AquaMinerals.

12. Ecological information

The substance is not ecotoxic.

Detailed information is contained in the Safety Data Report: Ferricoxide. This document is available on request from AquaMinerals.

13. Disposal considerations

Dispose according to national regulations for non-hazardous, non-combustible substances.

14. Transport information

Transport according to national, European (EU) and international (OECD, ADR, IMDG, IATA) regulations for non-hazardous substances.

15. Regulatory information

The substance is not classified as hazardous according to (EG) No 1272/2008 (CLP).

This Safety Data Sheet is not legally required but a service to downstream users.

16. Other information

Modifications in this version.

This is version 2 since the REACH registration.

Need more information?:

Detailed information is contained in the Safety Data Report: Ferric(III)oxide. This document is available on request from AquaMinerals.

Disclaimer

The above information presents the safety data for the product ferric(III)oxide. All the information is based on current knowledge. The information is intended as a guideline for safely managing this product, as well as its storage, processing, transport and disposal. Modifying the information or using it for other products is prohibited. Mixing, grinding and/or processing ferric(III)oxide with other products might render this information no longer entirely applicable to the new material. The user is responsible for taking the necessary precautionary measures, as well as for ensuring that the information is complete and sufficient for the safe use of this product.

