

Safety data sheet

Date of issue: December 6, 2005

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product:

Trade name: "Magnetic Grey", article number B-45800 (50 gram), 46000 (200 gram), B-46100 (500 gram)

Use of substance/preparation:

Fingerprint powder

Company/undertaking identification:

Supplier: BVDA International b.v., Postbus 2323, 2002 CH HAARLEM, The Netherlands

Telephone: +31-23-5424708 Fax: +31-23-5322358 e-mail: info@bvda.nl

2. Composition/information on ingredients

This product is a preparation.

	CAS-Number	% w/w	Symbol	R-phrases	EC-Index-No.
Iron powder	7439-89-6	>90	-	-	-
Iron oxide	1317-61-9	<5	-	-	-
Copper powder	7440-50-8	<5	-	-	-
Aluminium powder	7429-90-5	<5	F	10, 15	013-002-00-1

(Full text of R-phrases in heading 16)

3. Hazard identification

Contact with water liberates extremely flammable gases.

4. First aid measures

After inhalation: move the person to fresh air.

After skin contact: wash skin with water and soap to remove dust.

After eye contact: rinse out with plenty of water with the eyelid held wide open. If symptoms persist, consult an ophthalmologist.

After ingestion: seek medical advice.

5. Fire fighting measures

Suitable extinguishing media: cover with dry sand or metal fire powder.

Extinguishing media not to be used: water, CO₂, foam.

Special risks: combustible. Contact with water liberates extremely flammable gases.

Special protective equipment for fire fighting: do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: avoid formation of dust; do not inhale dusts; use respirator if necessary.

Environmental precautions: larger amounts of product should not be allowed to enter the sewage system, surface water or ground water.

Methods for cleaning up: prevent formation of dust. Take up dry and collect in a suitable container. Clean up affected area. For a large spill, collect uncontaminated material for possible reuse.

7. Handling and storage

Handling:

Information for safe handling: prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly.

Information for prevention of fire and explosion: Keep away from sources of ignition. Take measures to prevent electrostatic charging.

Storage: keep container tightly closed in a dry place. Protect from humidity and water.

8. Exposure controls/personal protection

Specific control parameter: OES: 10 mg/m³ total inhalable dust
4 mg/m³ respirable dust

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: in case of dust formation above the exposure limit: wear filter mask (filter class P1/P2).

Eye protection: not required

Skin protection: not required

Hygienic measures: wash hands after working with the substance.

9. Physical and chemical properties

Form: powder

Color: grey

Odour: odourless

pH value (20° C): not determined

Melting temperature: above 1000° C.

Flash point: not applicable

Specific gravity (20° C): ca. 3 g/cm³

Solubility in water and organic solvents (20° C): insoluble

10. Stability and reactivity

Conditions to be avoided: moisture

Substances to be avoided: water, strong oxidizers, acids and alkalies.

Hazardous reactions: with water a slow, with acids, oxidizers, and alkalies a rapid evolution of hydrogen gas (fire and explosion hazard) will occur.

Hazardous decomposition products: hydrogen gas (fire and explosion hazard).

11. Toxicological information

Acute toxicity: Quantitative data on the toxicity of this product are not available.

Further toxicological information:

After inhalation: inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

After eye contact: slight irritations.

Further data:

The following applies to aluminium compounds in general: After swallowing: only slightly absorbable via the gastrointestinal tract. Serious disorders in man (from about 4000 mg aluminium up): phosphate metabolism, calcium metabolism.

12. Ecological information

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Biological degradation: will be largely eliminated in filtration steps.

Further ecologic data:

The following applies to aluminium compounds in general: for acidic aluminium compounds: biological effects: toxic for water organisms. Fish: toxic as from 0.55 mg/l; in very soft water toxic as from 0.1 mg/l; crustaceans: D. magna toxic as from 136 mg/l; algae: Sc. quadricauda toxic as from 1.5 mg/l (all values referring to dissolved Al). In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms.

13. Disposal considerations

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies

which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives:

Symbols: -

Description: -

Contains: Iron powder (EC-No: 231-096-4)
 Iron oxide (EC-No: 215-277-5)
 Copper powder (EC-No: 231-159-6)
 Aluminium powder (EC-No: 231-072-3)

R-phrases: R 15 "Contact with water liberates extremely flammable gases."

S-phrases: S 7/8-43 "Keep container tightly closed and dry. In case of fire, use sand or metal fire powder.
 Never use water."

National regulations:

Waterhazard class: Generally not hazardous for water.

16. Other information

Text of any R-phrases referred to under heading 2:

10 Flammable.
15 Contact with water liberates extremely flammable gases.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.