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according to 91/155/EEC

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## I – PRODUCT IDENTIFICATION

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Product Name: Magneta Flake  
Date: 27.05.95.  
Substance/Preparation IRON POWDER

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## II – COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical nature: Iron Powder CAS-No. 7439-89-6 EINECS-No. 231-096-4

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## III – HAZARDOUS INFORMATION

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Critical hazards to man and the environment:

N BULK: Highly flammable

Dust Explosion Hazard

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## IV – FIRST AID MEASURES

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On skin contact: Irritation not expected. Wash with soap and water  
Obtain medical attention if irritation should be encountered.

Eye contact: Possible irritation through mechanical action of dust particles.  
Irrigate the eye thoroughly with clean water. Obtain medical  
attention if symptoms persist.

Ingestion: Ingestion may result in gastric disturbances. Obtain medical  
attention if large quantities have been ingested.

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## V – FIRE FIGHTING MEASURES

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Suitable extinguishing media:  
Use foam, Co2, Water Spray or Dry Powder

Unsuitable extinguishing medium for safety reasons:  
None

The following can be given off in a fire:  
Iron Oxide, Dust

Special protective equipment:  
None

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### VI – ACCIDENTAL RELEASE MEASURES

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This material, like most materials in powder form, is capable of creating a dust explosion in large quantities.

Personal precautions: Avoid Dust Formation.

Methods for cleaning up:

Sweep/shovel up. Dispose in accordance with Local Authority Regulations.

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### VII – HANDLING & STORAGE

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Handling: Sources of ignition should be kept clear. Avoid dust formation.

Avoid shock and friction

Storage: Keep away from heat.

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### VIII – PHYSICAL & CHEMICAL PROPERTIES

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Form: Powder

Colour: Grey

Odour: Odourless

Change in physical state:

Melting point / Melting range: 1535° C

Boiling point / Boiling range: 2730° C

Combustibility: Highly flammable

Explosion limits:

- lower >200 g/m<sup>3</sup> ( VDI 3673)

- upper

Ignition temperature: >150° C (self-heating)

Density: 7.8 g/cm<sup>3</sup> (DIN)

Bulk density: 3000-4000 kg/m<sup>3</sup>

Solubility in water: Insoluble

pH value in water: Neutral

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### IX – TRANSPORTATION INFORMATION

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In a dry state: Stable

Conditions to avoid: Keep away from heat. Like most materials in powder form dust may form explosive mixture in air.

Substances to avoid

Hazardous reactions: Highly flammable  
Dangerous reaction with acids.

Formation of: Hydrogen

Hazardous decomposition products:

None

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### **X – TOXICOLOGY INFORMATION**

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Acute toxicity

LD50/oral/rat: >5000 mg/kg

Experience in humans

Direct contact with the eyes can cause irritation of the mucous membrane

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### **XI – ECOLOGICAL INFORMATION**

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Elimination information:

Local effluent treatment regulations should be complied with. Not readily water soluble, inorganic product. May be virtually separated mechanically in purification plant.

Behaviour and environmental facts:

Due to the consistency of the product, and its insolubility in water, it will apparently not be bio-available.

Ecotoxic effects:

The product has not been tested. Due to its consistency and lack of water solubility, bio-availability is unlikely.

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### **XII – EXPOSURE STANDARDS/PERSONAL PROTECTION**

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Occupational Exposure Standards:

None assigned - manufacturer recommended figure 10mg/m-3 8 hour TWA total inhalable dust or 5mg/m-3 8 hour TWA of respirable dust

Ventilation:

Preferably local exhaust ventilation. This must be adequate to keep exposure below the occupational exposure standard

Respiratory Equipment: Where adequate ventilation cannot be provided personal respiratory equipment must be used

Skin Protection:

May be used if handling large quantities

Eye Protection:

May be used if handling large quantities

Other special Requirements:

Protective hand creams are beneficial

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The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties.

Recipients of our product must take responsibility for observing existing laws and regulations.

CSI shall not be held liable for any damage resulting from handling or from contact with the above product.