

# Safety Data Sheet



according to 29 CFR 1910.1200(g)

## Hematite

Revision date: 29.01.2016

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### 1. Identification

#### Product identifier

Hematite

#### Details of the supplier of the safety data sheet

Company name: Powder Technology Inc.  
Street: 1300 Grey Fox Road  
Place: USA-55112 Arden Hills, MN  
Telephone: +1 952 894 -8737  
e-mail: sales@powdertechologyinc.com  
Internet: http://www.powdertechologyinc.com

**Emergency phone number:** +1 952 894 -8737

#### Further Information

This safety data sheet was created by: ECI EnviroConsult Ingenieurbüro Dr. Lux e.K.

### 2. Hazard(s) identification

#### Label elements

##### **Special labelling of certain mixtures**

Safety data sheet available on request.

##### **Hazards not otherwise classified**

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### **Chemical characterization**

powdered minerals

##### **Hazardous components**

CAS No	Components	Quantity
1309-37-1	Hematite	>99,4 %

### 4. First-aid measures

#### Description of first aid measures

##### **After inhalation**

Provide fresh air.

##### **After contact with skin**

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

##### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

##### **After ingestion**

Rinse mouth immediately and drink plenty of water.

#### **Most important symptoms and effects, both acute and delayed**

Dust is irritating to the respiratory tract. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. Ingestion may cause severe and permanent damage to the digestive tract. May cause liver damage. Causes severe pain, nausea, vomiting, diarrhea and shock. May cause hemorrhaging of the digestive tract.

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### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

#### **Unsuitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>).

### Specific hazards arising from the chemical

Non-flammable. In case of fire may be liberated: Gases/vapours, irritant; Gases/vapours, toxic

### Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust.

### Environmental precautions

No special environmental measures are necessary. Clean contaminated objects and areas thoroughly observing environmental regulations.

### Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### **Advice on safe handling**

Conditions to avoid: Dust deposits. Generation/formation of dust

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

### Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Do not store at temperatures over: 60 °C / 140°F

#### **Advice on storage compatibility**

No special measures are necessary.

## 8. Exposure controls/personal protection

### Control parameters

#### **Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
1309-37-1	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ) (respirable fraction)		5		TWA (8 h)	TLV
1309-37-1	Iron oxide dust and fume (as Fe)	-	5		TWA (8 h)	REL
1309-37-1	Iron oxide fume	-	10		TWA (8 h)	PEL

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### Exposure controls

#### **Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### **Eye/face protection**

Wear eye/face protection.

#### **Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### **Skin protection**

Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protective equipment: particulates filter device (DIN EN 143). half-mask with filter (DIN EN 149). Filtering device with filter or ventilator filtering device of type: P 2

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Powder
Color:	red brown - black
Odor:	odourless

#### Test method

pH-Value:	not determined
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#### **Changes in the physical state**

Melting point/freezing point:	not determined
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Initial boiling point and boiling range:	not determined
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Flash point:	not applicable
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#### **Flammability**

Solid:	not determined
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Gas:	not applicable
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Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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#### **Auto-ignition temperature**

Solid:	not determined
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Gas:	not applicable
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Decomposition temperature:	not determined
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#### **Oxidizing properties**

Not oxidizing.

Density:	5,24 g/cm <sup>3</sup>
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Water solubility:	insoluble
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#### **Solubility in other solvents**

not determined

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Partition coefficient: not determined  
Vapour density: not determined  
Evaporation rate: not determined

### Other information

Solid content: not determined

## 10. Stability and reactivity

### Reactivity

No hazardous reaction when handled and stored according to provisions.

### Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

Hazardous reactions: May occur

No hazardous reaction when handled and stored according to provisions.

### Conditions to avoid

none

### Incompatible materials

Aluminium. Bromine pentafluoride. Calcium hypochlorite. Carbon dioxide. Cesium carbide. Ethylene oxide. Hydrazine. Performic acid.

### Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, irritant; Gases/vapours, toxic

## 11. Toxicological information

### Information on toxicological effects

#### **Route(s) of Entry**

Ingestion, Inhalation. For further information refer to Chapter 4.

Carcinogenicity (IARC): Haematite (CAS 1317-60-8) is listed in group 3.

#### **Additional information on tests**

This mixture is classified as not hazardous according to 1999/45/EC.

## 12. Ecological information

### Ecotoxicity

The product is not: Ecotoxic.

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

The product has not been tested.

### Mobility in soil

The product has not been tested.

### Other adverse effects

No information available.

### **Further information**

Avoid release to the environment.

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### 13. Disposal considerations

#### Waste treatment methods

##### Advice on disposal

Dispose of waste according to applicable legislation.

##### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

### 14. Transport information

#### US DOT 49 CFR 172.101

##### Proper shipping name:

Not a hazardous material with respect to these transport regulations.

#### Marine transport (IMDG)

##### UN number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Air transport (ICAO)

##### UN number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### Special precautions for user

No information available.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

### 15. Regulatory information

#### U.S. Regulations

##### National Inventory TSCA

Haematite (CAS 1317-60-8) is listed in the TSCS.

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

### 16. Other information

#### Hazardous Materials Information Label (HMIS)

Health:	1
Flammability:	0
Physical Hazard:	1

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### NFPA Hazard Ratings

Health: 1  
Flammability: 0  
Reactivity: 1  
Unique Hazard:



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### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*