

# Metal Powders USA



## Safety Data Sheet

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Product name

IRON POWDER

### 1. IDENTIFICATION OF THE SUBSTANCE/MANUFACTURER

Product name: Iron Powder -325 mesh

MetalPowdersUSA, INC  
11010 Harbor Hill DR NW  
Suite #208  
Gig Harbor, WA 98332 USA

### 2. HAZARD IDENTIFICATION

Classification

The product is not classified as dangerous according to Directive 1999/45/EEC.

Most important risks

Moderate explosion hazard in form of dust when exposed to potential ignition sources.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Composition

Substance	EINECS nr	CAS Nr	Contents	Classification
Iron	231-096-4	7439-89-6	97-100	-

no spec.

This is not a specification

### 4. FIRST AID MEASURES

Inhalation

If symptoms appear, seek medical advice.

Skin contact

If symptoms appear, seek medical advice.

Eye contact

Rinse with plenty of lukewarm water.

Ingestion

If symptoms appear, seek medical advice.

Special first-aid equipment

If symptoms appear - seek medical advice.

Information to doctor/medical staff

No special First Aid Equipment needed.

At overdose of metal powder by ingestion: Make a gastric lavage if ingestion occurred in the last 1-3 hours.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

To be selected taking into consideration fires in the vicinity, e.g. water mist, foam, carbon dioxide, powder. Foam with substances harmful to the environment, such as perfluoro-octanesulfonic acid (PFOS) and nononyl ethoxylate [sic].

Not suitable extinguishing media

Special exposure hazards

This product is flammable. Finely pulverized substance suspended in air can cause dust explosion and the fine particle size (<45 microns) of this product makes this risk

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Protective equipment for fire-fight  
high. The risk of explosion increases with finer particle size.  
Use self-contained breathing apparatus in the event of a major fire.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions  
Environmental precautions  
Methods for cleaning up  
Non suitable methods cleaning up

See point 8.  
Prevent material from entering drains and sewers.  
Spillage should be cleaned up with broom and shovel taking care to minimize dust generation and elimination ignition sources.  
The use of vacuum equipment is not recommended since it may cause a static charge that could ignite the fine powder and cause a dust explosion.

## 7. HANDLING AND STORAGE

Handling  
Storage  
Preventive security measures  
Specific use(s)

When handling this product try to minimize or eliminate dust generation to minimize the risk of a dust explosion. If dust is present heat- and ignition sources must be eliminated.  
Store at dry conditions.  
No particular.  
-

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values  
Dust inorganic  
Exposure Controls  
Occupational exposure controls  
Respiratory protection  
Hand protection  
Eye protection  
Skin protection  
Environmental exposure controls

Inhalable 15 mg/m<sup>3</sup> TLV  
Respirable 5 mg/m<sup>3</sup> TLV  
Normally not needed. If occupational exposure limit value is suspected to be reached or dust levels are high exposure measurement is recommended.  
Normal ventilation. Use local exhaust ventilation if the dust-concentration is high.  
Halfmask with particle filter P2 shall be worn if exposure limit value is suspected to be exceeded or the dust is perceived disturbing.  
Is normally not needed. In case of long-term handling butyl- or nitrile gloves can be used. Breakthrough time is not known.  
Is normally not needed.  
Normal work suit.  
Dust from the exhaust ventilation should be separated out in order to avoid release to the natural environment.

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Replaces

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light grey to grey, fine-grained metal powder.
Odour	Odourless.
Particle size	>95% -45 um
Solubility in water	Insoluble
Solubility in ?	Insoluble in organic solvents.
Flash point	---
Relative density	1,7-2,3 g/cm3
pH	not applicable
Boiling point	---
Melting point	(Fe)1535°C
Explosive properties	Kst (bar*m/s)= 18 Ex cl.= 1 MIE dc (mJ)= 50-100
Ignition temperature	---
Vapour pressure	not applicable
Other information	not applicable

## 10. STABILITY AND REACTIVITY

Conditions to avoid	Dust formation
Materials to avoid	Strong oxidizers and strong acids.
Hazardous decomposition products	No.
Stability	Stable at normal handling and storage conditions.

## 11. TOXICOLOGICAL INFORMATION

General information	Not applicable.
Inhalation	Inhalation of dust may irritate the respiratory tract, but not enough to be classified as irritating to respiratory system.
Skin contact	Contact with skin in the long term may cause irritation.
Ingestion	Ingestion may cause indisposition and vomiting.
Eye contact	Eye-irritation at direct contact, otherwise no harmful effects are known at normal industrial handling.
Toxicology data, acute	On product: No data available On ingredients: Iron: oral.rat LD50 30000 mg/kg(Prevent)
Toxico kinetics	---
Experience on human	---
Chronical and sub-chronical effects	---
Sensibilisation	Not applicable
Carcinogenic properties	Not applicable
Reproduction toxic properties	Not applicable
Mutagenic properties	Not applicable

## 12. ECOLOGICAL INFORMATION

General information

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Acute tox. water living organisms	No data available.
Chronical effects	No data available.
Mobility	---
Persistence and degradability	Not applicable
Bioaccumulative potential	BFC: 140000 (Prevent)
Results of PBT assessment	Not applicable

### 13. DISPOSAL CONSIDERATIONS

Classified as hazardous waste

The packaging is taken care of

Suit. meth. for waste treatment

The product is not classified as hazardous waste according to directive 2008/98/EC.  
According to directive 94/62/EC on packaging and packaging waste, carefully emptied packaging can be incinerated.  
Dispose in safe manner in accordance with local regulations.

### 14. TRANSPORT INFORMATION

General information

UN-nr: not regulated  
IMDG-Code: not regulated  
ICAO/IATA: not regulated  
RID/ADR: not regulated  
Packing: none allocated  
Non-dangerous product for transportation by road, sea and air.

Specific information

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### 15. REGULATORY INFORMATION

Marking-symbols

Hazard Label

R-phrases

S-phrases

Specific markings

Specific limitations

Specific Regulatory Information

### 16. OTHER INFORMATION

SDS revised in following points

R-phrase(s) from dp.3 in full text

Training advice

Recom. restrictions by supplier

Other information

This Safety Data Sheet has been established in accordance with Directive nr 1907/2006/EC.  
Classification references: Directive 67/548/EEC and Directive 99/45/EEC.

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