

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

Iron powder reduced

*Manufacturer/supplier identification*

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**2. Hazards identification****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Flammable solids (Category 1)

Self-Heating Substances (Category 1)

**Label elements**

Pictogram



Signal word Danger

**Hazard statement(s)**

H228 Flammable solid.

H251 Self-heating; may catch fire.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.

**Supplemental Hazard Statements**

none

**3. Composition/information on ingredients***Synonyms*

Iron powder reduced

CAS-No.: 7439-89-6

M: 55.84 g/mol

Molecular formula: Fe

**4. First aid measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.



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**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. Fire-fighting measures****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures****Personal precautions**

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

## 9. Physical and chemical properties

**Form:** powder

**Colour:** grey-black

**Odour:** not available

**pH value:** not available

**Melting point:** 1535 °C.

**Boiling point:** 2730 °C

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 7.87g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

## 10. Stability and reactivity

**Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Heat, flames and sparks.

**Materials to avoid**

Strong oxidizing agents, Strong acids

**Hazardous decomposition products**

Other decomposition products - no data available

## 11. Toxicological information

**Acute toxicity**

LD50 Oral - Rat - 7,500 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**12. Ecological information****Toxicity**

Toxicity to fish static test - *Morone saxatilis* - 13.6 mg/l - 96 h

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

**13. Disposal considerations****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information****ADR/RID**

UN-Number: 3178 Class: 4.1 Packing group: III

Proper shipping name: FLAMMABLE SOLID, INORGANIC, N.O.S.

**IMDG**

UN-Number: 3178 Class: 4.1 Packing group: III

Proper shipping name: FLAMMABLE SOLID, INORGANIC, N.O.S.

Marine pollutant: no

**IATA**

UN-Number: 3178 Class: 4.1 Packing group: III

Proper shipping name: Flammable solid, inorganic, n.o.s.

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**16. Other information**

General update.



## Material Safety Data Sheet

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*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.