

MATERIAL SAFETY DATA SHEET**Product Name:** Iron metal filings**CAS No.:** 7439-89-6**Version:** 0**1. Identification**

Product Code : 91860
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2. Hazards Identification**Hazard classification**

Flammable solids : Category 1

Label elements**Hazard symbol****Signal word** : Danger**Hazard statement** : Flammable solid.**Precautionary statement** : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Other hazards which do not result in GHS classification : None.**3. Composition/information on ingredients**

Ingredient	CAS No
IRON METAL	7439-89-6

4. First Aid Measures**Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

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

MATERIAL SAFETY DATA SHEET**Product Name:** Iron metal filings**CAS No.:** 7439-89-6**Version:** 0

- Skin contact** : Wash off with soap and plenty of water. Consult a physician.
- Eye contact** : Flush eyes with water as a precaution.
- Swallowed** : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma., Long term inhalation exposure to iron (oxide fume or dust) can cause siderosis. Siderosis is considered to be a benign pneumoconiosis and does not normally cause significant physiologic impairment. Siderosis can be observed on x-rays with the lungs having a mottled appearance.
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

5. Fire fighting measures**Extinguishing media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture : Iron oxides

Advice for firefighters : Wear self contained breathing apparatus for fire fighting if necessary

Further information : Use water spray to cool unopened containers.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures : Avoid dust formation. Avoid breathing vapors, 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.

MATERIAL SAFETY DATA SHEET**Product Name:** Iron metal filings**CAS No.:** 7439-89-6**Version:** 0

- 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 (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
- Reference to other sections** : For disposal see section 13.

7. Handling and Storage

- Precautions for safe handling** : Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition
- No smoking. Take measures to prevent the build up of electrostatic charge.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Store under inert gas. Moisture sensitive.
- Specific end use(s)** : No data available

8. Exposure Controls Personal Protection**Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

- Eye/face protection** : Use equipment for eye protection tested and approved under appropriate government standards.

- Skin Protection Hand protection** : Wear protective gloves.

- Body Protection** : Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- Respiratory protection** : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator.

MATERIAL SAFETY DATA SHEET**Product Name:** Iron metal filings**CAS No.:** 7439-89-6**Version:** 0**9. Physical and Chemical Properties**

Appearance	: Grayish fine, heavy filings
Odor	: No data available
pH	: No data available
Melting point/freezing point	: 1.535 °C - lit.
Initial boiling point and boiling range	: 2.750 °C - lit.
Flash Point	: Not applicable.
Vapor pressure	: No data available
Vapor density	: No data available
Specific gravity	: 7.86 g/cm ³ at 25 °C
Solubility in water	: Insoluble
Solubility (other)	: No data available
Formula	: Fe
Molecular Weight	: 55.85 g/mol

10. Stability and Reactivity

Reactivity	: No data available
Chemical stability	: No data available
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Incompatible materials	: Acids, Oxygen, Strong oxidizing agents, Halogens, Phosphorus
Hazardous decomposition products	: Other decomposition products - no data available

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	: LD50 Oral - rat - 30.000 mg/kg Remarks: Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
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

MATERIAL SAFETY DATA SHEET**Product Name:** Iron metal filings**CAS No.:** 7439-89-6**Version:** 0

Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration hazard	: No data available
Potential health effects	
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	: May be harmful if swallowed.
Skin	: May be harmful if absorbed through skin. May cause skin irritation.
Eyes	: May cause eye irritation.
Signs and Symptoms of Exposure	: Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhea, vomiting, nausea, and hematemesis occur. After apparent recovery a person may experience metabolic acidosis, convulsions, and coma hours or days later.

12. Ecological Information

Toxicity	: No data available.
Persistence and degradability	: No data available.
Bioaccumulative potential	: No data available.
Mobility in soil	: No data available.
Results of PBT and vPvB assessment	: No data available.
Other adverse effects	: No data available.

13. Disposal consideration

Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	: Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	3089	METAL POWDER	4.1	III	No
IMDG	3089	METAL POWDER	4.1	III	No
IATA	3089	METAL POWDER	4.1	III	No

15. Regulatory Information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :**01/08/2014**Version :** 0

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