

IRON METAL POWDER (300 Mesh)

SECTION 1: PRODUCT IDENTIFICATION

Product Name: IRON METAL POWDER (300 Mesh)

Product Code: 1927

CAS#: 7439-89-6

Chemical Formula: Fe

Molecular Formula: 55.85 g/mol

Formula Weight: NA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Synonyms: Iron

Formula: Fe

Molecular Weight: 55.85 g/mol

CAS-No.: 7439-89-6

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable solids, (Category 1) H228: Flammable solid.

Self-heating substances and mixtures, (Category 1) H251: Self-heating; may catch fire.

Other hazards:

This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

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

Eye Contact: Flush eyes with water as a precaution.

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

Serious Skin Contact: Not available

Serious Inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Serious Ingestion: Not available

Most important symptoms and effects, both acute and delay no data available

Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media

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

Special hazards arising from the substance or mixture no data available

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapor's, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s) A part from the uses no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment

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

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Form	: Dark brown colored powder.
Odour		: Not available
Taste		: Not available
Molecular Weight		: Not available
Colour		: Not available
pH		: Not available
Boiling Point		: Not available
Melting Point		: Not available
Critical Temperature		: Not available
Specific Density		: Not Available
Vapor Pressure		: Not Available
Vapor Density		: Not available
Volatility		: Not Available
Odor Threshold		: Not Available
Water/Oil Dist. Coeff.		: Not Available
Ionicity (in Water)		: Not Available
Dispersion Properties		: Not Available
Solubility		: Not available



SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity Self-heating; may catch fire

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions Violent reactions possible with: ammonium chloride, Oxidizing agents, halogen-halogen compounds, nitril compounds, nitrates, Fluorine, oils, hydrogen peroxide, hydrogen sulphide, Acetaldehyde

Generates dangerous gases or fumes in contact with: Water , Acids

Risk of explosion with: ammonium nitrate, Ammonium peroxodisulfate, potassium dichromate, perchlorates, Air, nitrates performic acid, chlorine acid, oils with Water

Risk of ignition or formation of inflammable gases or vapours with: Peroxides, nitril compounds, hydrogen sulphide, nitrogen dioxide, hydrogen peroxide, Halogens oils with Air

Conditions to avoid no information available

Incompatible materials no data available

Hazardous decomposition products no data available

Other decomposition products no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD50 Oral - Rat - 7.500 mg/kg

Remarks: (Lit.)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation:

Eyes - Rabbit

Result: No eye irritation

Remarks: (Lit.)

Respiratory or skin sensitization:

Did not cause sensitization on laboratory animals.

Germ cell mutagenicity:

Test system: S. typhimurium

Method: OECD Test Guideline 471

Result: Not mutagenic in Ames Test.

Remarks: (Lit.)

Carcinogenicity: No data available

Reproductive toxicity: Did not show teratogenic effects in animal experiments. Animal testing did not show any effects on fertility.

Specific target organ toxicity: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure

Aspiration hazard: No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity no data available

Persistence and degradability no data available

Bio-accumulative potential no data available

Mobility in soil no data available

Results of PBT and vPvB assessment **PBT/vPvB assessment** This substance/mixture contains no components considered to be either persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.



Other adverse effects no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: 3178

IMDG: 3178

IATA: 3178

UN proper shipping name

ADR/RID: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)

IMDG: FLAMMABLE SOLID, INORGANIC, N.O.S. (Iron Powder,)

IATA: flammable solid, inorganic, n.o.s. (iron powder,)

Transport hazard class(es):

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

Packaging group:

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special precautions for user

Tunnel restriction code : (E)

Further information : No data available

SECTION 15: OTHER REGULATORY INFORMATION

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:

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

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements

H228: Flammable solid.

H251: Self-heating; may catch fire.

LD50 Oral - Rat - 7.500 mg/kg

Other Special Considerations: Not available.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

