



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-Feb-2023 Revision Number 6.02

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Iron, Powder
Product Code	095-00755

Manufacturer FUJIFILM Wako Pure Chemical Corporation

> 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

Fax: +81-6-6203-5964 **Supplier** FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

**Emergency telephone number** Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571 For research use only

restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Flammable solids

Category 2

#### **Pictograms**



Warning Signal word

### **Hazard statements**

H228 - Flammable solid

# **Precautionary statements-(Prevention)**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Wear protective gloves/protective clothing/eye protection/face protection

# Precautionary statements-(Response)

• In case of fire: Use CO2, dry chemical, or foam for extinction

# Precautionary statements-(Storage)

Not applicable

#### Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

**Formula** Fe

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Iron	85.0	55.845	-	N/A	7439-89-6

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

### **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

# Section 5: FIRE FIGHTING MEASURES

### Suitable extinguishing media

Extinguishing powder, Sand

# Unsuitable extinguishing media

Do not use straight streams

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special extinguishing method

No information available

### Special protective actions for

### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

## **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

No information available

# Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# **Section 7: HANDLING AND STORAGE**

#### Handling

#### **Technical measures**

Flammable. Avoid contact with strong oxidizing agents. Avoid contact with acidic and alkaline substances. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

# Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

#### Storage

Safe storage conditions

**Storage conditions** Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Polypropylene

Incompatible substances Strong oxidizing agents, Strong acids, Alkali

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask Hand protection Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Form

Colorblackish grayAppearancepowder

**Odor** no data available

Melting point/freezing point1535°CBoiling point, initial boiling point and boiling range2730°CFlammabilityFlammable solid

Evaporation rate: no data available Flammability (solid, gas): no data available

Upper/lower flammability or

explosive limits

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** рΗ no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities dil. hydrochloric acid : soluble . water : insoluble .

n-Octanol/water partition coefficient:(log Pow) no data available
Vapour pressure no data available

Specific Gravity / Relative density 7.86

Vapour density no data available

Particle characteristics Particle size; 150um (Average)

# **Section 10: STABILITY AND REACTIVITY**

#### Stability

**Reactivity** no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents, Strong acids, Alkali

Hazardous decomposition products

Metal oxides

# **Section 11: TOXICOLOGICAL INFORMATION**

Acute toxicity no data available

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

# **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** No information available

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14: TRANSPORT INFORMATION

ADR/RID

UN3089 **UN** number

Proper shipping name: Metal powder, flammable, n.o.s. (Iron)

**UN classfication** 

Subsidiary hazard class

Packing group Ш

Marine pollutant Not applicable

**IMDG** 

UN3089 **UN** number

Proper shipping name: Metal powder, flammable, n.o.s. (Iron) 4.1

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

**UN** number UN3089

Proper shipping name: Metal powder, flammable, n.o.s. (Iron)

**UN classfication** 4 1

Subsidiary hazard class

Ш Packing group

**Environmentally Hazardous** Not applicable

**Substance** 

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

**EINECS/ELINCS** Listed **TSCA** Listed

Japanese regulations

**Fire Service Act** Not applicable Not applicable **Poisonous and Deleterious** 

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage

and storage of dangerous

goods in ship **Civil Aeronautics Law** 

Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

Flammable Solids - Flammable Solids (Ordinance Art.3, Ministry of Transportation

Flammable Solids (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

**Register Law** (~2023.3.31)

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

**Water Pollution Control Act** 

Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

**Export Trade Control Order** Not applicable

### **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances

Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc.

#### **Disclaimer**

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**