

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date 19-Dec-2018

Version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name (2-Thiophenecarbonyl)ferrocene
Product Code 202-20841
CAS No. 12087-88-6
Pure substance/mixture Substance

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use For research purposes.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet**Manufacturer**

FUJIFILM Wako Pure Chemical Corporation
1-2 Doshomachi 3-Chome
Chuo-ku, Osaka 540-8605, Japan
Phone: +81 (0)6-6203-3741
Fax: +81 (0)6-6203-4640

Supplier

FUJIFILM Wako Chemicals GmbH
Fuggerstrasse 12, D-41468 Neuss, Germany
Phone: +49 (0)2131-311 158 Fax: +49 (0)2131-311 100
FUJIFILM Wako Chemicals USA, Inc.
1600 Bellwood Road, Richmond, VA 23237-1326, U.S.A.
Phone: +1 (0)804-271-7677 Fax: +1 (0)804-271-7791

For further information, please contact us.

1.4. Emergency telephone number

As above or toxicological information center

Emergency telephone +81-6-6203-3741

Announcement of company name change Company name has changed since April 1, 2018. Former name was "Wako Pure Chemical Industries, Ltd."

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This substance/mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [CLP].

2.2. Label elements

This product does not need to be labelled according to Regulation (EC) No. 1272/2008 [CLP]

Pictograms

Signal word none

2.3. Other hazards

General Hazards No information available

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical Name	EC No	CAS No.	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(2-Thiophenecarbonyl)ferrocene	N/A	12087-88-6	N/A	99.0	Not classified

3.3 Additional information

Impurities and/or Additives : Not applicable

SECTION 4: First aid measures**4.1. Description of 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 while removing all contaminated clothes and shoes.
Eye 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.
Symptoms	No information available.
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing media Water spray, carbon dioxide (CO₂), dry chemical, alcohol resistant foam.

Unsuitable Extinguishing media No information available

5.2. Special hazards arising from the substance or mixture Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

5.4. Additional information No information available

SECTION 6: Accidental release measures**6.1. 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.
Use personal protection recommended in Section 8.

For emergency responders**6.2. Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.
See Section 12 for additional ecological information.

6.3. Methods and material for containment and cleaning up Sweep up and gather scattered particles, and collect it in an empty airtight container.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.
6.4. Reference to other sections See Section 12: Ecological Information, Section 13 : Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures Ensure adequate ventilation, especially in confined areas. Avoid contact with strong oxidizing agents.
 Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
 Packed with an inert gas.

Packaging materials Glass.

7.3. Specific end use(s)

Risk Management Methods (RMM) No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Suitable protective clothing.

Respiratory protection Dust mask.

Environmental exposure controls No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Color yellowish red

Appearance powder

Odor No data available

pH

Melting point / melting range No data available

Boiling point/boiling range No data available

Flash point No data available

Evaporation rate No data available

Flammability (solid, gas) No data available

Flammability Limits in Air

Upper No data available

Lower No data available

Vapor pressure No data available

Vapor density No data available

Specific Gravity / Density No data available

Solubility(ies) dichloromethane : soluble .

Partition Coefficient No data available

(n-octanol/water)

Autoignition temperature No data available

Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No data available

10.2. Chemical stability

May be altered by light.

Explosion data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge none.

10.3. Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid Extremes of temperature and direct sunlight.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides (SO_x). Metal oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity No information available

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available.

Aspiration hazard No information available.

CMR Effects No information available

Other Data To the best of our knowledge, chemical, physical and toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1. Toxicity No information available

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB No information available

assessment

12.6. Other adverse effects No information available

To the best of our knowledge, chemical, physical and toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Method of disposing waste from residues / unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14: Transport information

IMDG

Not regulated

14.1 UN/ID No

-

14.2 Proper shipping name

Not regulated

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not applicable

14.6 Special provisions

Not regulated

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA

Not regulated

14.1 UN/ID No

-

14.2 Proper shipping name

Not regulated

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not applicable

14.6 Special provisions

Not regulated

ADR/RID

Not regulated

14.1 UN/ID No

-

14.2 Proper shipping name

Not regulated

14.3 Hazard class

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not applicable

14.6 Special provisions

Not regulated

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water hazard class (WGK) No information available

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

TSCA	-
EINECS/ELINCS	-
DSL	-
NDSL	-
ENCS	-

15.2. Chemical safety assessment

No information available

SECTION 16: Other information**Revision Date** 19-Dec-2018**Key or legend to abbreviations and acronyms used in the safety data sheet**

No information available

Disclaimer

The information provided in this Material 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, use, processing, storage, transportation, disposal and release 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.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**End of Safety Data Sheet**