



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 28-Mar-2023 Revision Number 2.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	1,1'-Ferrocenedimethanol		
Product Code	355-41781		
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan		
Supplier	Phone: +81-6-6203-3741 Fax: +81-6-6203-5964 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	+81-6-6203-3741 / +81-3-3270-8571		
Recommended uses	For research use only		
Restrictions on use	Seek expert judgment when using for purposes other than those recommended.		
	Section 2: HAZARDS IDENTIFICATION		

GHS classification

<u>Classification of the substance or mixture</u> Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Pictograms Signal word

None

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Precautionary statements-(Prevention) • Not applicable Precautionary statements-(Response) • Not applicable 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

C12H14FeO2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
1,1'-Ferrocenedimethan	93	246.08	N/A	N/A	1291-48-1
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No. (1991) No. the table means an even of the mind of the second					

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.

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.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

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

Avoid contact with strong oxidizing agents. 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.

Storage

Safe storage conditions Storage conditions

Safe packaging material Incompatible substances

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

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** Hand protection Eye protection Skin and body protection General hygiene considerations

Dust mask (JIS T8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

FOIII	
Color	slightly yellow - brown
Appearance	crystals - crystalline powder
Odor	no data available
Melting point/freezing point	106-108 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	No data available
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsHazardous decomposition productsCarbon monooxide (CO), Carbon dioxide (CO2), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no 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 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 Not regulated UN number -Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant Not applicable

IMDG	Not regulated
UN number	-
Proper shipping name: UN classfication	
Subsidiary hazard class Packing group	
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	Not applicable
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS			
TSCA			
IOOA			
Japanese regulations			
Fire Service Act	Not applicable		
Poisonous and Deleterious	Not applicable		
Substances Control Law			
Industrial Safety and Health Act	tNot applicable		
Act on the Evaluation of	Not applicable		
Chemical Substances and			
Regulation of Their			
Manufacture, etc			
Regulations for the carriage	Not applicable		
and storage of dangerous			
goods in ship	N. C P LL.		
Civil Aeronautics Law	Not applicable		
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	Appendix 1 Export licensed items		
Export made control order			
Section 16: OTHER INFORMATION			
Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)		
sources for data etc.	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		
Record of SDS revisions	The following contents were revised. Prodauct and company Identification. Exposure		
	controls/personal protection. Regulatory information.		
Disclaimer	1 1		
This SDS is according to JIS 7 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our			

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