



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 08-Feb-2023 Revision Number 3.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ammonium Iron(III) Citrate, Green	
Product Code	094-02425,090-02422	
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 restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only	
	Section 2: HAZARDS IDENTIFICATION	
GHS classification Classification of the substance of Serious eye damage/eye irritation Pictograms Signal word Hazard statements Central nervous system		
Precautionary statements-(Respo	posed skin thoroughly after handling pnse) with water for several minutes. Remove contact lenses, if present and easy to do. Continue edical advice/attention ge)	
Others Other hazards	Not available	
Section 3: COMPOSITION/INFORMATION ON INGREDIENTS		

Single Substance or Mixture Substance

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ferric Ammonium	14.5 - 16.0 (as Fe)	N/A	1-314,2-1324	*	1185-57-5
Citrate					
Note on ISHI No :	* in the	table means annour	ced chemical substa	nces	

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.

<u>Storage</u>

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. 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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Ferric Ammonium Citrate	N/A	N/A	TWA: 1 mg/m ³ Fe
1185-57-5			_

Personal protective equipment

Respiratory pro	tection
Hand protection	า
Eye protection	
Skin and body	protection

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	green- yellowish green
Appearance	crystals - powder
Odor	Odorless
Melting point/freezing point	no data available
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	water : Very soluble . Ethanol : insoluble .
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

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 None under normal processing

 Conditions to avoid
 Extremes of temperature and direct sunlight, Moisture

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Skin irritation/corrosion	no data available
Serious eye damage/ irritation	no data available
Respiratory or skin sensitization	no data available
Reproductive cell mutagenicity	no data available
Carcinogenicity	no data available
Reproductive toxicity	no data available
STOT-single exposure	no data available
STOT-repeated exposure	no data available
Aspiration hazard	no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo 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.

Not regulated

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class

W01W0109-0242 JGHEEN

Packing group Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -
Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Ac	t Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,
·····	Para.1, Enforcement Order Art.18)
	Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table
	No.9)No.352
Regulations for the carriage	Not applicable
and storage of dangerous	
goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	Not applicable
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	
<u>(2023/4/1~)</u>	
Water Pollution Control Act	Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating
	Wastewater Standards Art.1)
Export Trade Control Order	Not applicable
Chemical Name	Poisonous and Deleterious Industrial Safety and Health Act Pollutant Pelease and Trans

Chemical Name	Poisonous and Deleterious	Industrial Safety and Health Act	Pollutant Release and Transfer
	Substances Control Law	Substances	Register Law
		(Law Art.57-2)	(~2023.3.31)
		(~2024.3.31)	
Ferric Ammonium Citrate 1185-57-5 (14.5 - 16.0 (as Fe))	-	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