Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Ferric ammonium Citrate	
Chemical Name	Ammonium iron(III) citrate	
Chemical Formula	$C_6H_8O_7 \bullet xFe \bullet yNH3$	
Company Identification	Showa Kako Corporation	
	18-23, Yoshino-cho, Suita-city, Osaka 564-0054	
	JAPAN	
Telephone Number	+81-6-6384-1501	
24-hour Emergency	+81-6-6384-1501	
Telephone Number		
Fax Number	+81-6-6384-2287	

Section 2 – Hazards Information

GHS Classification	
Physical Hazards	Not classified
Health Hazards	
Skin corrosion / Irritation	Category 2
Eye irritation	Category 2
Specific target organ toxicity	Category 3
single exposure	
Environmental Hazards	Not classified
GHS Symbol	<u>!</u>
Signal Word	Warning
Hazard Statements	
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation.
Precautionary Statements	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/
	spray.
Response Statements	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several
	minutes. Remove contact lenses, if present and easy

	to do. Continue rinsing.	
Storage Statements	None	
Disposal Statements	None	
Inhalation	Not harmful if handled properly	
Skin	May produce skin irritation	
Eyes	May cause eye irritation	
Ingestion	Not expected to present a significant ingestion	
	hazards under anticipated condition of normal use.	
GHS Classification	Not classified	

Section 3 – Composition and Information on Ingredients

Substance/Mixture Substance	
Chemical Name Ammonium iron(III) citrate	
CAS # 1185-57-5	
Percent	98.0% min.

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at least 15	
	minutes. Consult an ophthalmologist.	
Skin	Remove contaminated clothing and shoes. Flush skin with copious	
	amount of water or warm water. Call a physician if necessary.	
Ingestion	Wash out mouth with water. Give 1-2 cups of water or milk. Never give	
	anything by mouth to unconscious person. Call a physician.	
Inhalation	Remove to fresh air. If not breathing give artificial respiration. If	
	breathing is difficult, give oxygen. Call a physician if necessary.	

Section 5 – Fire Fighting Measures

Flash Point		No data found
Autoignition		No data found
Explosion Limits Lower		No data found
Upper		No data found
Extinguish Media Water, po		Water, powder, carbon dioxide, foam
Firefighting Instructions		Avoid non-firefighting equipped personnel to enter.
		Extinguish upwind from the fire wearing appropriate
		protective gear.

Section 6 – Accidental Release Measures

Spills/ Leaks	Evacuate area. Wear self-contained breathing apparatus,	
	rubber boots and heavy rubber gloves. Sweep up, place in a bag	

and hold for waste disposal. Avoid raising dust. Ventilator area
and wash spill site after material pickup is complete.

Section 7 – Handling and Storage

Handling	Wear appropriate protective gear. Do not contact with eyes, skin
	and on clothing. Do not inhale. Handle with care. Provide
	adequate ventilation. Wash mouth and hand after handling the
	material.
Storage	Keep container tightly closed. Avoid such conditions as direct
	sunlight, high temperature, high humidity and high piling. Store
	indoor at room temperature.

Section 8 – Exposure Controls, Personal Protection

Engineering	Facilities storing or utilizing the material should be equipped	
Controls	with an eye wash facilities and a safety shower. Use adequate	
	ventilation to keep airborne concentrations low.	
Exposure Limits	No data found	
Personal Protective Equipment		
Eyes	Safety goggles	
Skin	Rubber gloves	
Clothing	Protective clothing and rubber boots	
Respirators	Anti-dust mask	

Section 9 – Physical and Chemical Properties

Physical State	Crystalline powder	
Appearance	Green, red, brown	
Odor	Odorless or slightly smells like ammonia	
рН	No data found	
Boiling Point	No data found	
Melting Point	No data found	
Flash Point	No data found	
Autoignition	None	
Explosibility	None	
Vapor Pressure	No data found	
Vapor Density	No data found	
Solubility	Soluble in water (60% at 25°C)	
Molecular Weight	-	

Section 10 – Stability and Reactivity

Page: 3/5

Stability	Stable when handled properly
Conditions to avoid	Sunlight, high temperature and high
	humidity
	Ammonium salt produces ammonium gas
	when heated with basic solution.
Incompatibilities with Other Material	No data found
Hazardous Decomposition Product	No data found
Hazardous Polymerization	Will not occur

Section 11 – Toxicological information

RTECS #	No data found
LD50/ LC50	iv-mouse LD ₅₀ : 1000 mg/kg
Carcinogenicity	No data found
Mutagenicity	No data found
Reproductive Effects	No data found
Teratogenicity	No data found
Immunology	No data found
Irritation	May cause irritation to skin

Section 12 – Ecological Information

Ecotoxicity	No data found
Environmental Standard	No data found

Section 13 – Disposal Consideration

Disposal Method	Federal (national), state or local laws and regulations
	will determine the proper waste disposal method.
Regulation Method	Federal (national), state or local laws and regulations

Section 14 – Transport Information

Shipping Name	Not applicable
Hazard Class	Not applicable
UN #	Not applicable
Packing Group	Not applicable

Section 15 – Regulatory Information

United States	TSCA	On the list (as anhydrous)
EC	EINECS	214-686-6
Japan	PRTR law	Not on the list

Section 16 - Other Information

MSDS Creation Date	August 29, 2013
Revised Date	-
Revised No.	1st

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Page: 5/5