

Material Safety Data Sheet

Section 1 – Product and Company Identification

Product Name	Calcium citrate
Chemical Name	Calcium citrate tetrahydrate
Chemical Formula	$C_{12}H_{10}Ca_3O_{14} \cdot 4H_2O$
Company Identification	Showa Kako Corporation 18-23, Yoshino-cho, Suita-city, Osaka 564-0054 JAPAN
Telephone Number	+81-6-6384-1501
24-hour Emergency Telephone Number	+81-6-6384-1501
Fax Number	+81-6-6384-2287

Section 2 – Hazards Information

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
GHS Symbol	Not classified
Signal Word	Not classified

Section 3 – Composition and Information on Ingredients

Substance/Mixture	Substance
Chemical Name	Calcium citrate
CAS #	813-94-5
Percent	98.0% min.(as anhydrous)

Section 4 – First Aid Measures

Eyes	Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Consult with ophthalmologist.
Skin	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult with a physician if symptoms occur.
Ingestion	Immediately wash mouth with plenty of water and give 1 - 2 cupfuls of

	milk or water if victim is conscious and alert. Consult with a physician. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, wash out nasal aperture and mouth with plenty of water. If breathing is difficult, give artificial respiration. If not breathing, give oxygen. Consult with a physician.

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, 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. Do not contact with skin. Do not inhale. Wash spill site after material pickup is complete.
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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 in low-humid and dry area.

Section 8 – Exposure Controls, Personal Protection

Engineering Controls	Facilities storing or utilizing the material should be equipped 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
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Section 9 – Physical and Chemical Properties

Physical State	Powder
Appearance	White
Odor	Odorless
Boiling Point	No data found
Melting Point	No data found
Density	No data found
Viscosity	No data found
pH	No data found
Flash Point	No data found
Explosibility	No data found
Vapor Density	No data found
Solubility	Water 0.095 g/100 mL (25 °C)

Section 10 – Stability and Reactivity

Stability	Stable
Conditions to avoid	Direct sunlight, high temperature, high humidity and high piling
Incompatibilities with Other Material	No data found
Hazardous Decomposition Product	May produce carbon monoxide or carbon dioxide
Hazardous Polymerization	Will not occur

Section 11 – Toxicological information

RTECS #	No data found
LD50/ LC50	No data found
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 and mucous membrane

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
EC	EINECS	212-391-7
Canada	WHMIS	No data found
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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