



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
Kolkata – 700 089, India.
Phone: +9133 4025 1700 Fax: +9133 2574 7410
Email: webcil@webcil.com Website: www.webcil.com

Section 1 - Chemical Product and Company Identification

1.1 MSDS Name: Calcium Citrate USP

1.2 Product Code : CACUS97

1.3 Company Identification:

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Section 2 - Hazards Identification

Potential. Chronic/ acute health effects: Slightly hazardous in case of eye contact (irritant), of ingestion, of inhalation.

Classification of the substance or mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.

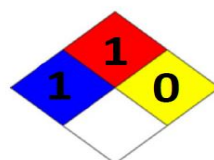
Hazards not otherwise classified (HNOC) or not covered by GHS: none

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.



NFPA SCALE (0-4)



Health	1
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)





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Section 3 - Composition / Information on Ingredients

3.1 Substances

Sl No	Ingredient Name	CAS Number	EC no	Molecular Formula	Molecular Wt.
1)	Calcium Citrate	5785-44-4	212-391-7	C ₁₂ H ₁₀ Ca ₃ O ₁₄ .4H ₂ O	570.50 g/mol

Section 4 - First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 - Fire-Fighting Measures

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: CLOSED CUP: Higher than 93.3°C (200°F).

Flammable Limits: Not available.

Products of Combustion: Some metallic oxides.

Products of Decomposition: acetone and calcium carbonate

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact/ static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Explosion Hazards: Not available.





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Section 6 - Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7 - Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, moisture.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.





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Section 9 - Physical and Chemical Properties

9.1 Information on basic physical and chemical properties:

Appearance Form	:	White free flowing powder, with occasional friable lump.
Form	:	Solid, powder in nature
Color	:	White
Melting point / Freezing point (loses water)	:	120 °C Literary Reference
Molecular weight	:	498.4 gm/mol
Solubility	:	Slightly soluble in water, freely soluble in diluted 3(N) HCl & in diluted 2(N) Nitric acid, insoluble in alcohol.

Section 10 - Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products/ Other decomposition products: No data available In the event of fire: see section 5

Section 11 - Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May affect genetic material.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust may cause eye irritation.

Inhalation: Dust may cause respiratory tract irritation. Ingestion: May cause gastrointestinal (digestive)





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Section 11 - Toxicological Information

tract irritation. May affect brain. The toxicological properties have not been fully investigated.

Acute Toxicity :

Oral LD50 (rat): > 5000 mg/kg (low acute toxicity).

Inhalation: No data available, but dust may cause mild respiratory irritation in sensitive individuals.

Dermal LD50: No data available, expected to have low toxicity based on composition.

Section 12 - Ecological Information

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Ecotoxicity:

Aquatic Toxicity: Non-toxic to aquatic organisms. Calcium citrate dissociates into calcium ions and citrate, both of which are naturally occurring and non-hazardous to aquatic life.

LC50 (Fish, 96 hours): > 100 mg/L (low toxicity).

EC50 (Daphnia magna, 48 hours): > 100 mg/L (low toxicity).

Section 13 - Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Air transport Goods	:	Nonhazardous/non-dangerous and safe to carry via ocean route.
Special Provision for Transport	:	Not applicable
IATA Specification	:	Non-dangerous, non-hazardous





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Section 15 - Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Calcium Citrate

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

DOT (Pictograms)

AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED.

NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED.

THIS IS NOT REGULATED AS PER IATA REGULATION





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Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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