



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
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Section 1 - Chemical Product and Company Identification

1.1 MSDS Name: Calcium Citrate USP

1.2 Product Code : CACUS97

1.3 Recommended Use and Restrictions on Use: Pharmaceutical ingredient, Nutritional supplement, Industrial applications.

Restrictions on Use: Avoid generating dust; refer to hazard information.

1.4 Company Identification:

WEST BENGAL CHEMICAL INDUSTRIES LIMITED

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Section 2 - Chemical Product and Company Identification

2.1 Classification of the Substance or Mixture:

- GHS Classification: Not classified as hazardous under the Globally Harmonized System (GHS).
- OSHA Hazard Classification: Not classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).
- REACH Classification: Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP Regulation).
- WHMIS Classification: Not classified as hazardous under WHMIS 2015.

2.2 Hazard classification

Eye Irritation: Category 2

2.3 Signal Warning





2.4 Hazard statements

H319 (14.3%): Causes serious eye irritation

2.5 Precautionary statements

Prevention:

- P264+P265: Wash hands thoroughly after handling. Avoid eye contact.
- P280: Wear protective gloves, clothing, eye protection, and face protection.

Response:

- P305+P351+P338: IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing.
- P337+P313: If eye irritation persists, get medical advice/attention.

2.6 Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS:

None identified.

2.7 Potential Acute and Chronic Health Effects:

2.7.1 Acute Health Effects:

- Slightly hazardous in case of eye contact (irritant), ingestion, or inhalation.

2.7.2 Chronic Health Effects:

- No known chronic health effects associated with long-term exposure.

2.8 Toxicological Information:

2.8.1 Carcinogenic Effects:

Not listed as a carcinogen by OSHA, IARC, or NTP.



2.8.2 Mutagenic Effects: No data available.

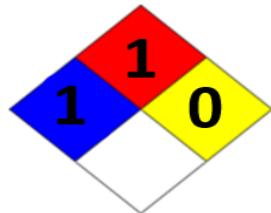
2.8.3 Teratogenic Effects: No data available.

2.8.4 Developmental Toxicity: No data available.

2.9 Pictogram:



2.10 NFPA SCALE



NFPA SCALE (0-4)

2.11 HMIS RATINGS:

| | |
|---------------------|---|
| Health | 1 |
| Flammability | 1 |
| Physical Hazard | 0 |
| Personal protection | E |

HMIS RATINGS (0-4)





Section 3 – Composition/Information On Ingredients

| | |
|------------------------------|--|
| 3.1 Ingredient Name | Calcium Citrate |
| 3.2 Synonym | Tricalcium dicitratetetrahydrate, CALCIUM CITRATE TETRAHYDRATE |
| 3.3 CAS Number | 5785-44-4 |
| 3.4 EC no | 212-391-7 |
| 3.5 Molecular formula | $C_{12}H_{10}Ca_3O_{14}.4H_2O$ |
| 3.6 Molecular weight | 570.50 g/mol |

Section 4 – First Aid Measures

4.1 Description of First Aid Measures

4.1.1 General Advice:

Consult a physician immediately. Show this safety data sheet to the doctor or medical personnel in attendance. Remove contaminated clothing and shoes immediately.

4.1.2 If Inhaled:

Remove the affected person to fresh air immediately. If not breathing, provide artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

4.1.3 In Case of Skin Contact:

Wash affected area thoroughly with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if irritation develops or persists.

4.1.4 In Case of Eye Contact:





Rinse eyes immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical advice if irritation persists.

4.1.5 If Swallowed:

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

4.2.1 Acute Symptoms: Irritation of eyes, skin, and respiratory tract. Possible mild gastrointestinal discomfort if ingested.

4.2.2 Chronic Symptoms: No known chronic health effects from normal handling.

4.3 Indication of Immediate Medical Attention and Special Treatment Needed

Provide symptomatic and supportive treatment. Ensure adequate ventilation and oxygen supply. No specific antidote is known. Treat symptomatically based on the patient's condition.

Section 5 – Fire-Fighting Measures

5.1 Flammability and Explosion Hazards:

5.1.1 Flammability: Calcium Citrate may be combustible at very high temperatures.

5.1.2 Suitable extinguishing media

Suitable extinguishing media Water Foam Carbon dioxide (CO₂) Dry powder
Unsuitable extinguishing media For this substance/mixture no limitations of





extinguishing agents are given.

5.1.3 Unsuitable Extinguishing Media: Avoid high-pressure water jets.

5.4 Auto-Ignition Temperature: Data not available.

5.5 Flash Point: Closed Cup: Above 93.3°C (200°F).

5.6 Flammable Limits: Not available.

5.7 Products of Combustion: Calcium oxide (CaO), carbon monoxide (CO), carbon dioxide (CO₂), and other metallic oxides.

5.8 Products of Decomposition: Calcium carbonate (CaCO₃) and trace amounts of acetone or volatile organic compounds under high heat.

5.9 Fire and Explosion Hazard : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.10 Fire Hazards in Presence of Various Substances: Stable under normal handling and storage conditions.

5.11 Hazardous Products of Combustion

Fire may produce irritating and/or toxic gases, including Carbon oxides, Calcium oxides.

5.12 Special Fire Fighting Instructions

Contain runoff from fire control or dilution water - Runoff may cause pollution.

5.12.1 SMALL FIRE: Use DRY chemical powder.

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





5.13 Specific Fire-Fighting Procedures: Avoid creating or dispersing dust clouds. Remove personnel from the immediate area. Cool nearby containers with water spray to prevent overheating or rupture.

5.14 Protective Equipment for Firefighters: Use self-contained breathing apparatus (SCBA) with full-face mask in positive pressure mode. Wear fire-resistant protective clothing, gloves, and boots. Avoid inhaling fumes from combustion or decomposition.

5.15 Special Precautions: Dust particles may form explosive mixtures in confined spaces with an ignition source. Maintain proper ventilation in storage and handling areas.

Section 6 – Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures:

6.1.1 For Non-Emergency Personnel:

Avoid dust formation. Ensure adequate ventilation in the affected area. Avoid inhalation of dust and contact with skin or eyes. Wear appropriate personal protective equipment (PPE) as gloves, goggles, and dust masks.

6.1.2 Such For Emergency Responders:

Wear self-contained breathing apparatus (SCBA) and full protective clothing if dust levels are high. Prevent further release or dispersion of material if safe to do so.

6.2 Environmental Precautions:

Prevent material from entering waterways, drains, or soil. Avoid dispersal of dust into the atmosphere. Inform appropriate authorities if significant





amounts enter the environment.

6.3 Methods and Material for Containment and Cleaning Up:

6.3.1 Small Spill: Use appropriate tools (e.g., brush and dustpan) to collect the spilled solid. Place the collected material in a suitable, labeled waste container. Clean the spill site with water, ensuring dust is minimized. Dispose of collected waste in accordance with local regulations.

6.3.2 Large Spill: Avoid creating airborne dust. Use a shovel or vacuum system equipped with a HEPA filter to collect material. Place the collected material in a sealed, labeled waste container. Wash the contaminated surface thoroughly with water. Do not allow water used for cleaning to enter public drainage systems or watercourses without proper treatment.

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment (PPE) requirements.

Refer to Section 13 for waste disposal considerations.





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Section 7 – Handling and Storage

7.1 Precautions for Safe Handling:

7.1.1 Handling Precautions: Avoid generating or inhaling dust. Use only in well-ventilated areas or with local exhaust ventilation. Wear appropriate personal protective equipment (PPE), including gloves, goggles, and dust masks. Avoid contact with skin and eyes. Do not eat, drink, or smoke while handling this material. Ensure proper grounding and bonding of equipment to prevent static discharge. Wash hands thoroughly after handling.

7.1.2 Hygiene Measures: Remove contaminated clothing and wash before reuse. Practice good industrial hygiene measures, such as hand washing and maintaining clean workspaces. Avoid prolonged or repeated exposure.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

7.2.1 Storage Conditions: Store in a tightly sealed container. Keep container dry and in a cool, well-ventilated area. Protect from heat, moisture, and direct sunlight. Avoid exposure to incompatible materials such as strong oxidizing agents. Keep away from food, drink, and animal feed. Ensure containers are clearly labeled and tightly closed when not in use.

7.2.2 Incompatible Materials: Avoid contact with strong oxidizing agents and moisture.

7.2.3 Emergency Storage Measures: Use containers made from chemically compatible materials (e.g., polyethylene, stainless steel). Avoid containers prone to corrosion.

7.3 Specific End Uses: Industrial and pharmaceutical manufacturing applications. Use in accordance with industry-specific regulations and guidelines.





Section 8 - Ecological Information

8.1 Control Parameters:

Occupational Exposure Limits (OELs):

- **OSHA PEL (Permissible Exposure Limit):** Not established.
- **ACGIH TLV (Threshold Limit Value):** Not established.
- **REACH DNEL (Derived No-Effect Level):** Not available.
- **WHMIS Exposure Limits:** Not established.

Biological Exposure Limits: Not available.

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Use **local exhaust ventilation** or a **dust collection system** to minimize airborne particles. Ensure **adequate general ventilation** in work areas. Provide **eyewash stations** and **safety showers** nearby. Avoid creating **dust clouds** during handling and processing.

8.3 Personal Protective Equipment (PPE)

8.3.1 Eye/Face Protection:

Safety goggles with side shields (EN 166 standard) or chemical splash goggles.

8.3.2 Skin Protection: Chemical-resistant gloves (e.g., nitrile or neoprene). Long-sleeved protective clothing or lab coats.

8.3.3 Body Protection: For normal handling: Lab coat. For large spills: Full chemical-resistant protective suit.

8.3.4 Respiratory Protection:





Use an **NIOSH-approved respirator** (e.g., N95 mask) if airborne dust levels exceed safe limits. For large spills or high dust concentration: Use a **self-contained breathing apparatus (SCBA)**.

8.3.5 Foot Protection:

Safety boots made from chemical-resistant material.

8.4 Environmental Exposure Controls:

Prevent material from entering **drains, waterways, or soil**. Implement dust control measures to prevent environmental contamination. Use proper waste disposal methods (see **Section 13**).

8.5 Hygiene Measures:

Wash hands, face, and any exposed skin thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not eat, drink, or smoke while handling Calcium Citrate. Maintain clean and dust-free workspaces.

| Section 9 - Physical and Chemical Properties for Calcium Citrate USP | |
|--|--|
| Property | Value / Description |
| Appearance | White, free-flowing powder with occasional friable lumps |
| Physical State | Solid (Powder) |
| Color | White |
| Odor | Odorless |
| Melting Point / Freezing Point (Dehydration Temperature) | Approximately 120°C (Loses water) |
| Boiling Point / Range | 309.6 °C (lit) |
| Molecular Weight | 570.49 g/mol |
| pH (in solution) | 5.0–9.0 (10% aqueous solution at 25°C) |





| | |
|--|--|
| Solubility | Slightly soluble in water; freely soluble in diluted 3(N) HCl and diluted 2(N) Nitric acid; insoluble in alcohol |
| Specific Gravity / Density | 1.63 g/cm ³ at 25°C |
| Vapor Pressure | Not Applicable |
| Vapor Density | Not Applicable |
| Partition Coefficient (n-octanol/water) | Not Applicable |
| Auto-Ignition Temperature | Not Available |
| Flash Point | >93.3°C (closed cup) |
| Decomposition Temperature | Above 120°C (Releases acetone and calcium carbonate) |
| Flammability (Solid, Gas) | Not Applicable |
| Explosive Properties | Not Applicable |
| Oxidizing Properties | Not Applicable |
| Viscosity | Not Applicable |





Section 10 - Stability and Reactivity

10.1 Reactivity: Calcium Citrate is non-reactive under normal handling and storage conditions.

10.2 Chemical Stability: Stable under normal temperature and pressure when stored as recommended. Avoid high temperatures ($>120^{\circ}\text{C}$) as decomposition may occur.

10.3 Possibility of Hazardous Reactions : None known under normal storage and handling conditions. Will not undergo hazardous polymerization.

10.4 Conditions to Avoid: Excessive heat ($>120^{\circ}\text{C}$), Moisture or prolonged exposure to humidity, Dust formation and dispersion in confined spaces.

10.5 Incompatible Materials: Strong oxidizing agents (e.g., peroxides, nitric acid), Strong acids or strong bases may cause degradation or reaction.

10.6 Hazardous Decomposition Products:

10.6.1 Thermal Decomposition Products: Calcium oxide (CaO), carbon dioxide (CO₂), carbon monoxide (CO), and trace acetone.

10.6.2 In Fire Scenarios: Refer to **Section 5 – Fire-Fighting Measures** for more details.

10.7 Other Information: Avoid creating dust clouds, as fine particles may pose a physical hazard. Ensure proper ventilation in handling and storage areas.





Section 11 - Toxicological Information

11.1 Routes of Exposure: Inhalation, Ingestion, Skin contact, Eye contact

11.2 Acute Toxicity:

Oral LD50 (Rat): >5000 mg/kg (Low acute toxicity)

Inhalation LC50 (Rat): No data available (Dust may cause mild respiratory irritation).

Dermal LD50: No data available (Expected to have low toxicity based on composition).

11.3 Skin Corrosion/Irritation: Slightly hazardous in case of prolonged or repeated skin contact. May cause mild skin irritation.

11.4 Serious Eye Damage/Irritation: Dust may cause mechanical eye irritation. Symptoms may include redness, itching, and tearing.

11.5 Respiratory or Skin Sensitization: Not expected to cause respiratory or skin sensitization.

11.6 Germ Cell Mutagenicity: No data available.

11.7 Carcinogenicity: Not listed as a carcinogen by OSHA, IARC, NTP, or EU CLP.

11.8 Reproductive Toxicity: No data available.

11.9 Specific Target Organ Toxicity (STOT) – Single Exposure: Dust inhalation may cause mild irritation to the respiratory system.

11.10 Specific Target Organ Toxicity (STOT) – Repeated Exposure: No data available.





Section 11 - Toxicological Information

11.11 Aspiration Hazard: Not classified as an aspiration hazard.

11.12 Chronic Toxicity: No significant chronic health effects expected under normal handling and usage.

11.13 Other Information: Toxicological properties have not been fully investigated. Individuals with pre-existing respiratory conditions may experience exacerbated symptoms upon prolonged exposure to dust.



Section 12 - Ecological Information

12.1 Toxicity

12.1.1 Aquatic Toxicity:

- **Fish (96 hours, LC50):** >100 mg/L (Low toxicity)
- **Daphnia magna (48 hours, EC50):** >100 mg/L (Low toxicity)

12.1.2 General Statement: Calcium citrate dissociates into calcium ions and citrate in aquatic environments, both of which are naturally occurring and generally non-toxic to aquatic organisms.

12.2 Persistence and Degradability

Calcium Citrate is considered **readily biodegradable** under natural conditions.

Degradation products include calcium ions (Ca^{2+}) and citrate anions, both of which are naturally present in the environment.

12.3 Bioaccumulative Potential

Bioaccumulation: Not expected to bioaccumulate in aquatic or terrestrial organisms due to its high water solubility and natural occurrence in biological systems. **Bioconcentration Factor (BCF):** Not applicable (low bioaccumulation potential).

12.4 Mobility in Soil: Calcium citrate is **moderately mobile** in soil due to its partial solubility in water. Dissociation into calcium and citrate ions allows migration through soil layers.

12.5 Results of PBT and vPvB Assessment

PBT (Persistent, Bioaccumulative, and Toxic): Not classified as PBT.

vPvB (Very Persistent and Very Bioaccumulative): Not classified as vPvB.





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12.6 Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

12.7 Other Adverse Effects: Calcium citrate is not expected to cause significant environmental harm under normal usage and disposal practices. Excessive release into water bodies may lead to localized pH changes and nutrient imbalances.





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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

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available Further information Not classified as dangerous in the meaning of transport regulations.

Land Transport (Australia)

ADG Code

Proper Shipping Name Calcium Citrate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Calcium Citrate

Class No Data Available





| | |
|--------------------|--|
| Subsidiary Risk(s) | No Data Available |
| | No Data Available |
| UN Number No | Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Calcium Citrate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping Name Calcium Citrate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available

Hazchem No Data Available

Pack Group No Data Available

Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.





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Sea Transport

IMDG Code

| | |
|-----------------------------|---|
| Proper Shipping Name | Calcium Citrate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| EMS | No Data Available |
| Marine Pollutant | No |
| Comments | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

Air Transport

IATA DGR

| | |
|-----------------------------|---|
| Proper Shipping Name | Calcium Citrate |
| Class | No Data Available |
| Subsidiary Risk(s) | No Data Available |
| UN Number | No Data Available |
| Hazchem | No Data Available |
| Pack Group | No Data Available |
| Special Provision | No Data Available |
| Comments | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)





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Section 15 – Regulatory Information

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|------------------------------|-----------|------|---|-----------------------------|
| Calcium citrate tetrahydrate | 5785-44-4 | - | - | - |
| Calcium citrate | 813-94-5 | X | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

- - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT) Not applicable

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|------------------------------|-----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Calcium citrate tetrahydrate | 5785-44-4 | - | - | - | X | - | - | X | - | - |
| Calcium citrate | 813-94-5 | X | - | 212-391-7 | X | X | X | X | X | KE-34049 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable



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EMAIL: webcil@wbcil.comWEBSITE: www.wbcil.com**Authorisation/Restrictions according to EU REACH**

Not applicable

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|------------------------------|-----------|---|---|---|
| Calcium citrate tetrahydrate | 5785-44-4 | - | - | - |
| Calcium citrate | 813-94-5 | - | - | - |

Safety, health and environmental regulations/legislation specific for the substance or mixture

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|------------------------------|-----------|----------------|------------------------------|---------------------------|--|
| Calcium citrate tetrahydrate | 5785-44-4 | Not applicable | Not applicable | Not applicable | Not applicable |
| Calcium citrate | 813-94-5 | Not applicable | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Seveso III Directive (2012/18/EC) - Qualifying Quantities | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|------------------------------|-----------|---|---|----------------------------|------------------------------------|
| Calcium citrate tetrahydrate | 5785-44-4 | Not applicable | Not applicable | Not applicable | Not applicable |
| Calcium citrate | 813-94-5 | Not applicable | Not applicable | Not applicable | Not applicable |

| | | for Major Accident Notification | for Safety Report Requirements | | |
|------------------------------|-----------|---------------------------------|--------------------------------|----------------|----------------|
| Calcium citrate tetrahydrate | 5785-44-4 | Not applicable | Not applicable | Not applicable | Not applicable |
| Calcium citrate | 813-94-5 | Not applicable | Not applicable | Not applicable | Not applicable |



Section 16 - Other Information

Other information Full text of other abbreviations ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition





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Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

Issue Date: Jan, 2025

Revision Date: Dec, 2026

Revision No.: 03

