



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

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Calcium Citrate Malate.

**Product Code :** CCM2022

**Company Identification:**

WEST BENGAL CHEMICAL INDUSTRIES LIMITED.

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## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt	Molecular Formula	Molecular Weight
Calcium Citrate Malate	142606-53-9	100	C <sub>24</sub> H <sub>34</sub> Ca <sub>6</sub> O <sub>35</sub>	1123 g/mol

## Section 3 - Hazards Identification

<b>APPEARANCE</b>	:	White powder.
<b>CAUTION</b>	:	None
<b>TARGET ORGANS</b>	:	None
<b>CLASSIFICATION OF THE SUBSTANCE OR MIXTURE</b>	:	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not a hazardous substance or mixture according to EC-directives 67/548/EEC.
<b>LABEL ELEMENTS</b>	:	The product does not need to be labeled in accordance with EC directives or respective national laws.

## Section 4 - First Aid Measures

<b>GENERAL ADVICE</b>	:	Consult a physician. Show this safety data sheet to the doctor in attendance
<b>IF INHALED</b>	:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>SKIN CONTACT</b>	:	Wash off with soap and plenty of water. Consult a physician.
<b>EYE CONTACT</b>	:	Flush eyes with water as precaution.



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### Section 5 - Fire-Fighting Measures

<b>SUITABLE EXTINGUISHING MEDIA</b>	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS</b>	:	Wear self contained breathing apparatus for firefighting if necessary.
<b>IF SWALLOWED</b>	:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Section 6 - Accidental Release Measures

<b>PERSONAL PRECAUTIONS</b>	:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
<b>ENVIRONMENTAL PRECAUTIONS</b>	:	Do not let product enter drains.
<b>METHODS AND MATERIALS FOR CONTAINMENT &amp; CLEANING UP</b>	:	Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

### Section 7 - Handling and Storage

<b>PRECAUTIONS FOR SAFE HANDLING</b>	:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>CONDITIONS FOR SAFE STORAGE</b>	:	Store in cool place. Keep container tightly closed in a dry and well – ventilated place. Light sensitive. Hygroscopic.



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## Section 8 - Exposure Controls / Personal Protection

<b>HYGIENE MEASURES</b>	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>RESPIRATORY PROTECTION</b>	:	Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>HAND PROTECTION</b>	:	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
<b>EYE PROTECTION</b>	:	Safety glasses with side-shields conforming to EN166.
<b>SKIN AND BODY PROTECTION</b>	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Section 9 - Physical and Chemical Properties

<b>Appearance form</b>	:	White free flowing powder with occasional friable lumps.
<b>Color</b>	:	White
<b>Odour</b>	:	Characteristic
<b>Solubility</b>	:	Insoluble in water.
<b>Molecular weight</b>	:	670 gm/mol
<b>Other safety information</b>	:	No data available

## Section 10 - Stability and Reactivity

<b>Chemical stability</b>	:	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	:	Exposure to moisture may affect product quality.
<b>Materials to avoid</b>	:	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	:	Hazardous decomposition products formed under fire conditions. - Carbon dioxides, Calcium monoxides.



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## Section 11 - Toxicological Information

<b>Acute Toxicity</b>	:	<p><b>LD50 (Oral, Rat):</b> &gt; 2,000 mg/kg (low toxicity).</p> <p><b>Skin Contact:</b> Non-irritating.</p> <p><b>Eye Contact:</b> Mild mechanical irritation possible from dust.</p> <p><b>Inhalation:</b> Non-toxic; dust may cause mechanical irritation.</p> <p><b>Chronic Toxicity:</b> No known significant effects or critical hazards.</p> <p><b>Carcinogenicity:</b> Not classified as a carcinogen by IARC, NTP, or OSHA.</p> <p><b>Mutagenicity:</b> Negative in standard mutagenicity tests (Ames test).</p> <p><b>Reproductive Toxicity:</b> No observed adverse effects on reproduction or fetal development in animal studies.</p>
<b>Skin corrosion/inhalation</b>	:	No Data Available
<b>Serious eye damage/eye irritation</b>	:	No Data Available
<b>Respiratory or skin sensitization</b>	:	No Data Available
<b>Germ Cell Mutagenicity</b>	:	Laboratory experiments have shown mutagenic effects.
<b>Carcinogenicity</b>	:	IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity</b>	:	No Data available
<b>Specific target organ toxicity - single exposure</b>	:	Inhalation - May cause respiratory irritation
<b>Specific target organ toxicity - repeated exposure</b>	:	No data available.
<b>Aspiration hazard</b>	:	No data available.
<b>Inhalation</b>	:	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	:	May be harmful if swallowed.
<b>Skin</b>	:	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	:	Causes eye irritation.
<b>Signs and Symptoms of Exposure</b>	:	Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Spasm, Inflammation and Edema of the larynx, Inflammation and edema of the bronchi, Pneumonitis, Pulmonary edema.



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## Section 12 - Ecological Information

<b>TOXICITY TO FISH</b>	:	LC50 - Lepomis macrochirus - 5.000 mg / l - 24 hr.
<b>Toxicity to daphnia and other aquatic invertebrates.</b>	:	EC50 - Daphnia magna (Water flea) - 1.950 mg / l - 24 hr
<b>PERSISTANCE &amp; DEGRADABILITY</b>	:	No data available.
<b>BIOACCUMULATIVE POTENTIAL</b>	:	Not expected to bioaccumulate.
<b>OTHER ADVERSE EFFECTS</b>	:	No data available
<b>Biodegradability:</b>	:	Calcium Citrate Malate is expected to degrade in the environment due to its organic acid components.

## Section 13 - Disposal Considerations

### PRODUCT

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.

### CONTAMINATED PACKAGING

Dispose of as unused product.

## Section 14 - Transport Information

<b>D O T Classification</b>	:	Not a DOT controlled material
<b>Identification</b>	:	Not applicable.
<b>Special Provision for Transport</b>	:	Not applicable
<b>UN proper shipping name:</b>	:	Not available.
<b>ADR/RID</b>	:	Not dangerous goods
<b>IMDG:</b>	:	Not dangerous goods
<b>IATA:</b>	:	Not dangerous goods



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## Section 15 - Regulatory Information

### EU-Regulations:

No REACH Annex XVII restrictions

Calcium Citrate Malate is not on the REACH Candidate List

Calcium Citrate Malate is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

### National regulations:

Not listed on the United States TSCA (Toxic Substances Control Act) inventory.

## Section 16 - Other Information

**Eye Irrit.**

Eye irritation.

**H 315**

Causes skin irritation.

**H 319**

Causes serious eye irritation.

**H 335**

May cause respiratory irritation.

**Skin Irrit.**

Skin irritation

**STOT SE**

Specific target organ toxicity - single exposure.

**Xi**

Irritant.

**R36/37/38**

Irritating to eyes, respiratory system and skin.

### 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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