



WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

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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

**1.1 MSDS Name:** Calcium Butyrate Food Grade

**1.2 Product Code:** CABFO98

**1.3 Relevant identified uses of the substance or mixture and uses advised against:**

Relevant identified uses for manufacturing, processing, laboratory or repacking use.

**1.4 Company Identification:** WEST BENGAL CHEMICAL INDUSTRIES LIMITED

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## Section 2 - Hazards Identification

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Label elements

**2.2 Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

2.2.1 Hazard Classification

- **Skin Irritation:** Category 2
- **Eye Irritation:** Category 2
- **Specific Target Organ Toxicity (Single Exposure):** Category 3

**2.3 Signal Word**

Warning

**2.4 Hazard Statement**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**2.5 Precautionary Statement**

**Prevention:**

- P261: Avoid breathing dust, fume, gas, mist, vapors, or spray.
- P264: Wash thoroughly after handling.
- P271: Use only in a well-ventilated area.
- P280: Wear protective gloves, protective clothing, and eye/face protection.

**Response:**

- P302+P352: IF ON SKIN – Wash with plenty of soap and water.
- P304+P340: IF INHALED – Remove person to fresh air and keep comfortable for breathing.



## Section 2 - Hazards Identification

- 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.

### Storage:

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

- P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.6 Classification according to EU Directives 67/548/EEC or 1999/45/EC:

#### Hazard Symbols:

Xn Harmful

Xi Irritant

#### Risk Phrases:

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system, and skin.

### 2.7 Other hazards:

In use, may form flammable/explosive dust-air mixture. The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table> The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006. The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

### 2.8 Pictogram:



### 2.9 NFPA Rating:



NFPA SCALE (0-4)



## Section 2 - Hazards Identification

### 2.10 HMIS Rating:

|                     |   |
|---------------------|---|
| Health              | 2 |
| Flammability        | 1 |
| Physical Hazard     | 0 |
| Personal protection | E |

HMIS RATINGS (0-4)

## Section 3 - Composition / Information on Ingredients

**3.1 Ingredient Name:** Calcium Butyrate

**3.2 Molecular Formula:**  $C_8H_{14}CaO_4$

**3.3 Molecular Weight:** 214.27 g/mol

**3.4 Synonyms:**

Tricalcium dicitrate malate, Calcium citrate complex with malic acid, CCM, Calcium citrate malic acid complex, Calcium citrate malate (1:1), Calcium citrate-malate salt

**3.5 CAS Number** 5743 – 36- 2

**3.6 EC No.:** 227-265-7

**3.7 % wt:** 100

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### 4.1.1 General Advice:

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

#### 4.1.2 If inhaled:

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest. If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary. If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

#### 4.1.3 Skin:

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician

#### 4.1.4 Eye:



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## Section 4 - First Aid Measures

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Consult an ophthalmologist

4.1.5 If swallowed:

Do not give the patient anything orally. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.

### 4.2 Most important symptoms and effects, both acute and delayed:

Health injuries are not known or expected under normal use. May cause eye/skin irritation. May cause irritation of respiratory tract.

### 4.3 Indication of any immediate medical attention and special treatment needed:

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

## Section 5 - Fire-Fighting Measures

### 5.1 Extinguishing media

5.1.1 Suitable extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media

### 5.2 Special hazards arising from the substance or mixture:

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

### 5.3 Hazards During Fire-Fighting:

Toxic fumes

### 5.4 Advice for firefighters:

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

### 5.5 Special protective equipment for firefighters:

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.



## Section 6 - Accidental Release Measures

### 6.1 Personal Precautions:

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental Precautions:

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

#### 6.3.1 Methods for containment:

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

#### 6.3.2 Methods for cleaning up Product code:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

### 6.4 Reference to other sections:

For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.

## Section 7 - Handling and Storage

**7.1 Precautions for safe handling:** 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.



#### 7.1.1 Measures to prevent aerosol and dust generation:

No special measures are necessary.

#### 7.1.2 Environmental precautions:

No special measures are necessary.

#### 7.1.3 Specific requirements or handling rules:

No special measures are necessary.

#### 7.1.4 Advices on general occupational hygiene:

No special measures are necessary.

### 7.2 Conditions for safe storage:



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## Section 7 - Handling and Storage

As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided. Keep away from oxidizing agents and from highly acidic or alkaline materials. Store according to local legislation. Observe indications on the label. The product is not affected by Directive 2012/18/EU (SEVESO III).

7.2.1 Storage temperature:

Keep in a cool, well-ventilated place.

7.2.2 Requirements for storage rooms and vessels:

Only use containers specifically approved for the substance/product.

7.2.3 Hints on joint storage:

Storage class (TRGS 510): 13

Storage temperature store at 10°C - 25°C

7.2.4 Further information on storage conditions:

Storage stability: Handle and store under inert gas 7.3

**7.3 Specific end use(s):**

None

## Section 8 - Exposure Controls / Personal Protection

**8.1 Control parameters:**

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values. 8.2

**8.2 Exposure controls:**

Only wear fitting, comfortable and clean protective clothing.

**8.3 Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.4 Personal protective equipment**

8.4.1 Respiratory protection:

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).

8.4.2 Hand protection:

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.



## Section 8 - Exposure Controls / Personal Protection

### 8.4.3 Eye protection:

Safety glasses with side-shields conforming to EN166.

### 8.4.4 Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## Section 9 - Physical and Chemical Properties

|  |                            |
|--|----------------------------|
| <b>Physical state</b>                          | : Solid                    |
| <b>Appearance</b>                              | : Powder.                  |
| <b>Color</b>                                   | : White                    |
| <b>Odor</b>                                    | : Sour milky odour         |
| <b>Taste</b>                                   | : No information available |
| <b>Flammability</b>                            | : No information available |
| <b>Flashpoint (°C/°F)</b>                      | : No information available |
| <b>Flash Point Tested according to</b>         | : No information available |
| <b>Autoignition Temperature (°C/°F)</b>        | : No information available |
| <b>Lower Explosion Limit (%)</b>               | : No information available |
| <b>Upper Explosion Limit (%)</b>               | : No information available |
| <b>Melting point/range(°C/°F)</b>              | : No information available |
| <b>Decomposition temperature(°C/°F)</b>        | : No information available |
| <b>Boiling point/range(°C/°F)</b>              | : No information available |
| <b>Bulk density</b>                            | : No information available |
| <b>Density (g/cm<sup>3</sup>)</b>              | : No information available |
| <b>Specific gravity</b>                        | : No information available |
| <b>pH</b>                                      | : No information available |
| <b>Vapor pressure @20°C(kPa)</b>               | : No information available |
| <b>Evaporation rate</b>                        | : No information available |
| <b>Vapor density</b>                           | : No information available |
| <b>VOC content (g/L)</b>                       | : No information available |
| <b>Odor threshold (ppm)</b>                    | : No information available |
| <b>Partition coefficient (n-octanol/water)</b> | : No information available |
| <b>Viscosity</b>                               | : No information available |



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## Section 9 - Physical and Chemical Properties

|                    |  |
|--------------------|--|
| <b>Miscibility</b> | : No information available                                 |
| <b>Solubility</b>  | : Soluble in water and the solution is slightly opalescent |

## Section 10 - Stability and Reactivity

### 10.1 Reactivity:

The product does not present hazards by their reactivity.

### 10.2 Chemical stability:

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions:

The product does not present possibility of hazardous reactions.

### 10.4 Conditions to avoid:

Heat. Ignition sources. Incompatible materials. Avoid dust formation. Exposure to moisture.

### 10.5 Materials to avoid:

Keep away from oxidizing agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

### 10.6 Hazardous Decomposition Products:

Hazardous decomposition products formed under fire conditions. - Carbon dioxides, Calcium oxides.

### 10.7 Other Information Corrosivity:

No information available Special Remarks on Corrosivity: No information available

## Section 11 - Toxicological Information

### 11.1 Acute Toxicity:

No Data Available.

11.1.1 Skin corrosion/inhalation: No Data Available

11.1.2 Serious eye damage/eye irritation: No Data Available

11.1.3 Respiratory or skin sensitization: No Data Available

### 11.2 Germ Cell Mutagenicity:

Laboratory experiments have shown mutagenic effects.

### 11.3 Carcinogenicity:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.





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## Section 11 - Toxicological Information

### 11.4 Reproductive toxicity:

No Data available.

### 11.5 Specific target organ toxicity - single exposure:

Inhalation - May cause respiratory irritation

### 11.6 Specific target organ toxicity - repeated exposure:

No data available.

### 11.7 Aspiration hazard:

No data available.

### 11.8 Signs and Symptoms of Exposure:

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.

## Section 12 - Ecological Information

### 12.1 Toxicity:

12.1.1 Aquatic Toxicity:

LC50 - Lepomis macrochirus - 5.000 mg / l - 24 hr.

EC50 - Daphnia magna (Water flea) - 1.950 mg / l - 24 hr

### 12.2 Persistence and Degradability:

No data available.

### 12.3 Bio-accumulative Potential:

No data available.

### 12.4 Other Adverse Effects:

No data available

## Section 13 - Disposal Considerations

### 13.1 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.

### 13.2 Contaminated packaging:

Dispose of as unused product.



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## Section 14 - Transport Information

**14.1 UN number:**

No information available.

**14.2 UN proper shipping name:**

No information available.

**14.3 Transport hazard class(es):**

No information available.

**14.4 Packing group:**

No information available.

**14.5 Environmental hazards:**

No information available.

**14.6 Special precautions for user:**

None

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:**

No information available

## Section 15 - Regulatory Information

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

Safety Data Sheet According to Regulation (EC) No. 1907/2006 (REACH) Classification according to Regulation (EC) No 1272/2008 [CLP] according to Regulation (EU) No. 2020/878 National regulations Water hazard class Class : nwg (Non-hazardous to water)

**15.2 Chemical Safety Assessment:**

**International Inventories**

| Component        | CAS-No.   | U.S. TSCA  | KOR EA KEC L     | Phillipine s (PIC CS) | Japan ENCS  | China   | Australia   | EINE CS-No.       |
|------------------|-----------|------------|------------------|-----------------------|-------------|---------|-------------|-------------------|
| Calcium Butyrate | 5743-36-2 | Not listed | Present KE-04504 | Not present           | Not present | Present | Not present | Present 227-265-7 |



## Section 15 - Regulatory Information

### Section 8 - Exposure Controls / Personal Protection U.S. Regulations

**California Prop. 65: Safe drinking water and toxic enforcement act of 1986**

**Chemicals known to the State of Callifornia to cause cancer:**

WARNING: This product contains a chemical known to the State of California to cause cancer (See table below)

**Chemicals known to the State of Callifornia to cause reproductive toxicity:**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

| Components       | CAS-No.   | Carcinogen | Developmental toxicity | Male reproductive toxicity | Female reproductive toxicity |
|------------------|-----------|------------|------------------------|----------------------------|------------------------------|
| Calcium butyrate | 5743-36-2 | Not Listed | Not Listed             | Not Listed                 | Not Listed                   |

### CERCLA/SARA

| Components       | CAS-No.   | CERCLA hazardous substances and their reportable quantities | Section 302 extremely hazardous substances and TPQs | Section 302 extremely hazardous substances and RQs | Section 313 – Chemical Categories | Section 313-reporting de minimis |
|------------------|-----------|---|---|--|-----------------------------------|----------------------------------|
| Calcium butyrate | 5743-36-2 | None  | None  | None   | None                              | None                             |

### U.S. TSCA

| Components | CAS-No. | TSCA section 5(a)2-chemicals with significant | TSCA 8(d)- health and safety reporting |
|------------|---------|---|--|
|            |         |   |  |



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## Section 15 - Regulatory Information

|                  |           | new use rules<br>(SNURS) |                |
|------------------|-----------|--------------------------|----------------|
| Calcium butyrate | 5743-36-2 | Not applicable           | Not applicable |

### Canada

#### WHMIS hazard class

Non-controlled

#### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all the information required by the CPR

#### Inventory

| Components       | CAS-No.   | Canada (DSL) | Canada (NDSL) |
|------------------|-----------|--------------|---------------|
| Calcium butyrate | 5743-36-2 | Not listed   | Not listed    |

| Components       | CAS-No.   | CEPA schedule-I Toxic substances |
|------------------|-----------|----------------------------------|
| Calcium butyrate | 5743-36-2 | Not list                         |

| Components       | CAS-No.   | CEPA 2010 greenhouse gasses subject to mandatory reporting |
|------------------|-----------|--|
| Calcium butyrate | 5743-36-2 | Not list   |

### EU classification

#### R-phrase(s)

not determined (not applicable)

#### S-phrase(s)

None

| Components       | CAS-No.   | Classification | Concentration limits | Safety phrases |
|------------------|-----------|----------------|----------------------|----------------|
| Calcium butyrate | 5743-36-2 |                |                      |                |

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

#### Indication of danger:

None



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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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**Revision**

**No.:** 03