

MATERIAL SAFETY DATA SHEET

Calcium Butyrate

Prepared according to GB/T 16483 and GB/T 17519

Product Name	Calcium Butyrate
CAS No.	5743-36-2
Version	1.0
Date of Preparation	March 19, 2025
Validity Date	From 2025.03.19 to 2029.03.30

Section 1. Chemical and Enterprise Identification

Chemical Chinese Name	Calcium Butyrate
Chemical Name	Calcium Butyrate
Company Name	Tianjin Huge Roc Enterprises Co., Ltd
Address	1806, Huijin Centre, 65 Dagu Beilu, Heping District, Tianjin, China
Post Code	300041
Contact Number	+86 15522959629
Emergency Telephone Number	+86 15522959629

Section 2. Hazard Overview

- Emergency overview: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
- GHS risk category: Harmful classification.
- Signal word: Warning.
- Hazard statements: H315 causes skin irritation; H319 causes serious eye irritation; H335 may cause respiratory irritation.
- Precautionary measures, accident response, safe storage and waste disposal: No specific data available.
- Physical and chemical hazards: No data available.
- Health hazards: Skin irritation, serious eye irritation and possible respiratory irritation.
- Environmental hazards: No data available.

Section 3. Composition / Information on Ingredients

Component	Concentration / Range (mass fraction, %)	CAS No.
Calcium Butyrate	100%	5743-36-2

Section 4. First Aid Measures

- Inhalation: If inhaled, move the patient to fresh air.
- Skin contact: Remove contaminated clothing and rinse skin thoroughly with soap and water. Seek medical attention if discomfort occurs.
- Eye contact: Separate eyelids and rinse with running water or normal saline. Seek immediate medical attention.
- Ingestion: Rinse mouth. Do not induce vomiting. Seek immediate medical attention.
- Advice to rescuers: Move the patient to a safe place. Consult a doctor and present this safety data sheet to

the doctor on site.

- Special tips for doctors: No data available.

Section 5. Fire-Fighting Measures

- Suitable extinguishing media: Water mist, dry powder, foam or carbon dioxide.
- Avoid direct running water for fire extinguishing, as it may cause splashing or spread of burning liquid.
- Special hazards: No data available.
- Protective measures: Fire-fighting personnel should wear self-contained breathing apparatus and full protective fire clothing, and fight fire from upwind.
- If possible, move containers from the fire area to an open area. Evacuate containers immediately if discoloration or sound from safety relief devices occurs.
- Isolate the accident site and prohibit unrelated personnel from entering. Contain and treat fire water to prevent environmental pollution.

Section 6. Accidental Release Measures

- Emergency personnel should wear air-breathing apparatus, anti-static clothing and rubber oil-resistant gloves.
- Do not touch or cross spilled material. Ground all equipment used during operation. Cut off leakage source as far as possible and eliminate ignition sources.
- Set a warning zone according to the affected area of liquid flow, vapor or dust diffusion, and evacuate unrelated personnel to the crosswind or upwind safety zone.
- Contain leakage to avoid environmental pollution. Prevent spills from entering sewers, surface water and groundwater.
- Small spills: Collect leaking material in a sealable container as much as possible. Absorb with sand, activated carbon or other inert material and transfer to a safe place. Do not flush into drains.
- Large spills: Build an embankment or dig a pit to contain it. Seal drainage pipes. Cover with foam to inhibit evaporation. Transfer by explosion-proof pump to a tank truck or special collector for recycling or disposal.

Section 7. Handling and Storage

- Operators should be specially trained and strictly follow operating procedures.
- Handling should be conducted in areas with local or full ventilation. Avoid eye and skin contact and avoid inhaling vapor or dust.
- Keep away from fire and heat. No smoking in the workplace. Use explosion-proof ventilation systems and equipment where needed.
- If filling is required, control the flow rate and use grounding devices to prevent static accumulation.
- Avoid contact with incompatible substances such as oxidizers. Handle lightly to prevent damage to packaging and containers.
- Empty containers may contain harmful residues. Wash hands after use. Do not eat or drink in the workplace.
- Store in a cool, ventilated warehouse. Storage temperature should not exceed 37°C. Keep containers sealed and away from fire and heat.
- Store separately from oxidants and edible chemicals. Do not mix storage. The storage area should be equipped with leakage emergency treatment equipment and suitable containment materials.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limits	MAC: not specified; PC-TWA: unspecified; PC-STEL: not specified.
Monitoring Method	GBZ/T 160.1 - GBZ/T 160.0.1-2004; EN 14042 guidance for workplace air exposure assessment.
Engineering Controls	Separate workspaces where possible, prevent leakage by closed operation, enhance ventilation, set emergency ventilation, evacuation channels, drainage areas, alarm systems, safety showers and eyewash facilities.
Respiratory Protection	Wear a filter gas mask (half mask) when airborne concentration exceeds the standard. Wear self-contained breathing apparatus during emergency rescue or evacuation.
Hand Protection	Wear rubber oil-resistant gloves.
Eye Protection	Wear chemical safety eye protection.
Skin and Body Protection	Wear protective clothing.

Section 9. Physical and Chemical Properties

Appearance and Properties	No data
Odor	No data
pH	No data
Melting Point / Freezing Point	No data
Boiling Point / Initial Boiling Point / Range	164.3°C at 760 mmHg
Spontaneous Combustion Temperature	No data available
Flash Point	69.7°C
Decomposition Temperature	No data available
Explosion Limit	No data
Evaporation Rate	No data
Saturated Vapor Pressure	No data
Flammability (solid, gas)	No data
Relative Density	No data
Vapor Density	No data
Odor Threshold	No data
N-octanol / Water Partition Coefficient (lg P)	No data
Solubility	No data
Viscosity	No data

Section 10. Stability and Reactivity

- Stability: Stable when stored and used at normal ambient temperature.
- Hazardous reactions: No data available.
- Conditions to avoid: Electrostatic discharge, heat and humidity.
- Incompatible materials: Strong oxidizers, strong acids and strong bases.
- Hazardous decomposition products: No data available.

Section 11. Toxicological Information

- Acute toxicity by mouth: No data.
- Inhalation toxicity: No data available.
- Percutaneous toxicity: No data available.
- Skin irritation or corrosion: No data available.
- Eye irritation or corrosion: No data available.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: No data available.
- Reproductive toxicity: No data available.
- Specific target organ toxicity - single exposure: No data available.
- Specific target organ toxicity - repeated exposure: No data available.
- Aspiration hazard: No data available.

Section 12. Ecological Information

- Ecotoxicity: No data available.
- Acute toxicity test of fish: No data available.
- Daphnia acute activity inhibition test: No data available.
- Algal growth inhibition test: No data available.
- Toxicity to microorganisms: No data available.
- Persistence and degradability: No data available.
- Bioaccumulation: No data available.
- Mobility in soil: No data available.

Section 13. Disposal Considerations

- Waste chemicals: Recycle whenever possible.
- If recycling is not possible, dispose of by incineration according to applicable regulations.
- Do not dispose of this product by drainage.
- Contaminated packaging: Return containers to the manufacturer or dispose of them in accordance with national and local regulations.
- Consult national and local regulations before disposal. Refer to Section 8 for safety precautions for disposal personnel.

Section 14. Transport Information

UN Number	No data
UN Proper Shipping Name	No data
Transport Hazard Class	No data
Packing Group / Type	No data
Marine Pollutant	No

- Package as recommended by the manufacturer, such as steel drums, glass bottles, plastic bottles or metal barrels packed in ordinary wooden cases as applicable.
- Transport vehicles should be equipped with suitable fire-fighting and leakage emergency treatment equipment.

- Do not transport together with oxidants or edible chemicals.
- Vehicle exhaust pipes should be fitted with flame arresters where required. Tank trucks should use grounding chains to reduce static electricity.
- Avoid mechanical equipment and tools that may generate sparks. Protect from sun exposure, rain and high temperature during transport.
- Keep away from fire, heat sources and high-temperature areas during stopovers. Follow prescribed road transport routes and avoid densely populated areas where required.
- Transport danger signs and announcements should be posted according to relevant transport requirements.

Section 15. Regulatory Information

- Component: Calcium Butyrate, CAS 5743-36-2.
- Classification of occupational hazard factors (2015): Not included.
- Hazardous Chemicals List (2015): Not included.
- List of Explosive Hazardous Chemicals (2017): Not included.
- List of hazardous chemicals under key supervision: Not included.
- List of narcotic drug varieties: Not included.
- List of psychotropic drugs: Not included.
- List of Existing Chemical Substances in China (2013): Included.

Section 16. Other Information

- This edition is Version 1.0, prepared according to GB/T 16483-2008, GB/T 17519-2013 and GB 30000 series classification standards.
- Reference sources include ICSC, OECD eChemPortal, CAMEO Chemicals, ChemIDplus, EPA IRIS, U.S. DOT Emergency Response Guidebook and GESTIS hazardous substances database.
- MAC: Maximum allowable concentration. PC-TWA: Permissible concentration-time weighted average. PC-STEL: Permissible concentration-short term exposure limit.
- Disclaimer: The information in this SDS applies only to the specified product and, unless otherwise specified, does not apply to mixtures of this product with other substances. The user shall make an independent judgment on the suitability of this SDS. The author shall not be liable for injuries resulting from use of this SDS.