



Chemistry for Safer, Sustainable Life

SAFETY DATA SHEET

Section 1: Identification

Product Name: Calcium Propionate

Product ID: 100PRO24

Chemical Name/Synonyms: Calcium dipropionate, Propionic acid calcium salt

CAS: 4075-81-4

Molecular Formula: C₆H₁₀CaO₄

Molecular weight: 186.22 g/mol

Potential Uses: Reagent, food additive, livestock milk fever remedy, mold inhibitor, calcium source in animal feed, antimicrobial additive, etc.

Company: BioFuran Materials LLC

920 William Pitt Way, Pittsburgh, PA 15238

In emergency call 911 or for information about this SDS, use this contact phone#: 412-376-7101

Section 2: GHS Hazard(s) Identification

Hazard Classification: Calcium propionate is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Calcium propionate is not a dangerous substance according to the Globally Harmonized System.

Signal Word(s): Warning

Hazard Statements: H318 – Causes serious eye damage

H303 – Maybe harmful if inhaled

H315 – May cause skin irritation

H302 – Maybe harmful if swallowed

Pictograms:



Precautionary Statements:

P280 – Wear protective gloves / protective clothing, eye protection / face protection

P302+P351+P338 – If in your eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and rinse for at least 15 minutes.

P310 – Immediately call a poison control center or a physician.

Other hazards: Combustible gas from calcium propionate may form explosive mixture with air

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Calcium propionate	Calcium dipropionate	4075-81-4	100%

Section 4: First-Aid Measures

After skin contact: Wash off with soap and plenty of water. Consult a physician.

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

After inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

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

Consult a physician.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

Section 6: Accidental Release Measures

Personal precautions: Wear protective equipment as described in Section 8.

Measures for environmental protection: Do not dispose product in municipal sewers or drains. Notify authorities if product enters sewers or public waters.

Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Sweep up and shovel any spillages. Keep all wastes and residues in suitable, closed containers for disposal.

Section 7: Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid dust formation and do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.

Storage: Keep container tightly closed.

General Hygiene: Eating, drinking, and smoking in the work area is prohibited. Wash hands after use and remove contaminated clothing and protective equipment before entering eating areas.

Section 8: Exposure Controls/Personal Protection

Component	CAS No.	Value	Control Parameters
Calcium propionate	4075-81-4	ACGIH TWA (mg/m ³)	15mg/m ³

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

Breathing equipment: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

Protection of hands: Neoprene or nitrile rubber gloves.

Eye protection: Chemical goggles. Contact lenses should not be worn.

Section 9: Physical and Chemical Properties

Appearance: Off-white powder

Odor: Very faint propionic acid odor

Odor threshold: No data available

pH: 7.5-10.5 for a 10wt% solution in water

Melting point/melting range: No data available

Boiling point/boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Auto ignition temperature: No data available

Danger of explosion: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density: No data available

Solubility in/Miscibility with water: 428-432g/L at 20°C. Slightly soluble in ethanol and methanol. Insoluble in acetone and diethyl ether

Section 10: Stability and Reactivity

Reactivity: No known reactivity under normal conditions of use

Chemical stability: Stable under ambient conditions but hygroscopic. Keep in closed container.

Conditions to avoid: Avoid exposing dust to sparks, heat, or flames.

Incompatible materials: Strong oxidizing agents, strong acids

Hazardous decomposition products: oxides of carbon and calcium

Section 11: Toxicological Information

Acute toxicity: No known reactivity under normal conditions of use.

Potential routes of exposure/potential health effects

Skin: May irritate the skin

Eye: Slightly hazardous in case of eye contact

Inhalation: No sensitizing effects

Ingestion: Maybe harmful if swallowed

Carcinogenic effects: No data available

Mutagenic effects: Not mutagenic

Reproductive toxicity: No data available

Sensitization: No data available

Target organs: No data available

Section 12: Ecological Information

Ecotoxicity: Low toxicity to aquatic organisms

Mobility: No data available

Biodegradation: readily biodegradable

Bioaccumulation: Low bioaccumulation potential

Bioaccumulation: Not persistent

Section 13: Disposal Considerations

This material or its residues should not be disposed in drains or in regular trash cans. Contact a licensed waste disposal professional to dispose this material or its residues.

Section 14: Transport Information

DOT regulations: Not dangerous goods

- **Land transport ADR/RID (cross-border):** Not regulated for transport
- **Maritime transport IMDG:** Not dangerous goods
- **Air transport ICAO-TI and IATA-DGR:** Not dangerous goods

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 302: This material is not subject to reporting requirements of SARA Title III, Section 302

SARA Section 313: This material is subject to reporting levels established by SARA Title III, Section 313

TSCA (Toxic Substances Control Act): Calcium formate is listed on the United States TSCA

Section 16: Other Information

SDS date of preparation/update: 09/07/2020 Version 001