



Chemistry for Safer, Sustainable Life

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** Calcium Formate

**Product ID:** 100FO24

**Chemical Name/Synonyms:** Calcium methanoate, Formic acid calcium salt, Calcoform, Calcium diformate

**CAS:** 544-17-2

**Molecular Formula:** C<sub>2</sub>H<sub>2</sub>CaO<sub>4</sub>

**Molecular weight:** 130.11 g/mol

**Potential Uses:** Reagent, desulfurization agent, animal feed additive, cement curing accelerator, brightener, adhesive additive, tanning additive, foliar fertilizer, 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:** Acute toxicity (Category 5), H303

Serious eye irritation / eye damage (Category 1), H318

Combustible gas

**Signal Word(s):** Danger

**Hazard Statements:** H318 – Causes serious eye damage

H303 – 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.

**Description of other hazards:** none available

## Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
Calcium formate	Calcium methanoate	544-17-2	97-100%

#### 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.

#### Section 8: Exposure Controls/Personal Protection

Component	CAS No.	Value	Control Parameters
Calcium formate	544-17-2	ACGIH TWA (mg/m <sup>3</sup> )	15mg/m <sup>3</sup>

**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

**Form:** Crystalline powder

**Appearance:** Off-white

**Odor:** Odorless

**Odor threshold:** No data available

**pH:** No data available

**Melting point/melting range:** greater than 300°C, decompose at 408°C

**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:** 172-175g/L at 20°C

### Section 10: Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under ambient conditions. 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

### Section 11: Toxicological Information

**Acute toxicity:** No data available

#### **Potential routes of exposure/potential health effects**

**Skin:** Does not irritate the skin

**Eye:** Causes serious eye damage

**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 (non-mandatory)

**Ecotoxicity:** Low toxicity to aquatic organisms  
**Mobility:** No data available  
**Biodegradation:** No data available  
**Bioaccumulation:** No data available

### Section 13: Disposal Considerations (non-mandatory)

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 (non-mandatory)

**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:** 06/11/2020 Version 001