



Section 1. Product and Company Identification

**Product Name** Calcium Lactate Gluconate  
**CAS Number** 11116-97-5

**Parchem - fine & specialty chemicals**

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**EMERGENCY RESPONSE NUMBER**  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended:** This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

**Classification according to Regulation (EC) No 1272/2008 as amended:** This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard and precautionary statements**

**Hazard statements:** The substance does not meet the criteria for classification.

**Precautionary statements:** Not available.

**Appearance & Odor:** White powder with no odor.

**Fire & Explosion Hazards**

Potential for dust explosion may exist. This product is not defined as flammable or combustible. However, the product may decompose under fire conditions to produce toxic oxides of carbon. Depending upon conditions, dusts may be sensitive to static discharge. Avoid possibility of dry powder and friction causing static electricity in presence of flammables (See NFPA-77, Chpt. 6)

**Primary Route of Exposure:** Skin and eye contact are the primary routes of exposure to this product.

**Inhalation Acute Exposure:** Inhalation of dust may cause mild irritation.

**Skin Contact - Acute:** Skin contact is not expected to cause irritation.

**Eye Contact - Acute:** Eye contact with dusts may cause mild physical irritation.

**Ingestion - Acute:** This product has GRAS (generally recognized as safe) status under FDA. It has a low order of toxicity.



**Carcinogenicity**

**IARC:** No

**OSHA:** No

**NTP:** No

**ACGIH:** No

Section 3. Composition / Information on Ingredients

**Common Name** Calcium Lactate Gluconate  
**Synonym(s)** Calcium (S)-2-hydroxy propanoate 2,3,4,5,6-pentahydroxy hexanoate;  
Calcium Gluconolactate  
**Formula** C<sub>9</sub>H<sub>16</sub>O<sub>10</sub>Ca  
**CAS Number** 11116-97-5

COMPONENT	CAS NUMBER	CONCENTRATION
Calcium Lactate Gluconate	11116-97-5	100%

Section 4. First Aid Measures

**Inhalation:** Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

**Skin Contact:** Remove contaminated clothing and equipment. Wash all affected areas with plenty of soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Get medical attention if irritation occurs. Remove contaminated clothing and shoes and wash before re-use.

**Eye Contact:** Flush the eyes with large quantities of running water for a minimum of 15 minutes. If the victim is wearing contact lenses, remove them. Hold the eyelids apart during flushing to ensure rinsing of the entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils or ointments should not be used at this time. Get medical attention if eye irritation occurs.

**Ingestion:** Give several glasses of water. If vomiting occurs, keep head below hips to reduce risk of aspiration. Give fluids again. Seek medical attention if health effects occur.

**Medical Conditions Aggravated:** There are no data available that address medical conditions that are generally recognized as being aggravated by exposure to this product.

**Note to Physician:** No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical conditions.

Section 5. Firefighting Measures

**Flash Point:** N/D

**Flash Method:** Not applicable

**Auto Ignition Temperature:** > 338.00°F(> 170.00°C)

**Upper Explosion Limit:** N/D

**Lower Explosion Limit:** N/D



**Suitable Extinguishing Media:** This product is noncombustible. If involved in a fire, extinguishing agents suitable for surrounding materials should be used.

**Fire Fighting Procedures:** As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate non-essential personnel from the fire area. Firefighters should wear full face, self-contained breathing apparatus and impervious protective clothing.

**Fire & Explosion Hazards:** Potential for dust explosion may exist. This product is not defined as flammable or combustible. However, under fire conditions the product may decompose to produce toxic oxides of carbon.

Depending upon conditions, dusts may be sensitive to static discharge. Avoid possibility of dry powder and friction causing static electricity in presence of flammables. (See NFPA-77, Chpt. 6)

**Other Fire + Explosion Hazards:** No other explosion hazards of this product are known. Hazardous products / Combustion Oxides of carbon are produced by the combustion of this product.

#### NFPA Rating

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

**Other:** N/A

#### Section 6. Accidental Release Measures

**Methods for Cleaning up:** Stop source of spill. Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal.

#### Section 7. Handling and Storage

**Handling:** Avoid prolonged and/or repeated skin and eye contact when handling this product. Handle in accordance with good industrial hygiene and safety practice.

**Storage:** Keep container closed. Suitable for any general chemical storage area. Isolate from incompatible materials.

**Maximum Storage Temperature:** 68.00°F (20.00°C)

**General Comments:** Containers should not be opened until ready for use.

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

**Respiratory Protection:** If handling operations lead to dusting, wear a NIOSH-approved half-mask, air purifying respirator with dust, mist and fume filters. When using respirator cartridges or canisters, they must be changed frequently (following each use or at the end of the work shift) to assure that breakthrough exposure does not occur.

**Skin Protection:** Skin contact with this product should be minimized through the use of suitable protective clothing and gloves selected with regard for use condition exposure potential.



**Eye Protection:** Indirect vented, dust-tight goggles are recommended if dust is generated when handling this product.

**Ventilation Protection:** Special ventilation is usually not required under normal use conditions. General plant ventilation should be adequate in most cases.

**Other Protection:** All food and smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed.

**Applicable Exposure Limits:** In addition to any exposure limits displayed below, exposures to this product should be controlled below limits established for "Particulates Not Otherwise Classified (PNOC):"

ACGIH 10 mg/m<sup>3</sup>

15 mg/m<sup>3</sup> (total dust)

OSHA 5 mg/m<sup>3</sup> (respirable fraction)

#### Section 9. Physical and Chemical Properties

**Vapor Pressure (mmHg):** N/D

**Vapor Density (Air = 1.0):** N/D

**Evaporation Rate:** N/D

**Volatile %:** N/D

**Boiling Point:** N/D

**Odor Threshold (ppm):** N/D

**Specific Gravity:** N/D

**Bulk Density:** 400 - 650 kg/m<sup>3</sup>

**Solubility in Water:** Soluble in cold water (20 g/100 ml, 20°C)

**Solubility in Other Solvents:** N/D

**Coefficient of Oil and Water:** N/D

**Pour Point:** N/D

**Melting Point:** 284.00°F 140°C

**PH Factor:** AP 7 (1% solution)

**Cloud Point:** N/D

**Flash Point:** N/D

**Upper Explosion Limit:** N/D

**Lower Explosion Limit:** N/D

**Auto Ignition Temperature:** > 338.00°F (> 170.00°C)

**Other Decomposition Temperature:** approx. 170°C

#### Section 10. Stability and Reactivity

**Stability:** This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

**Incompatibilities:** This product is incompatible with strong oxidizers.

**Polymerization:** Hazardous polymerization is not expected to occur.



**Decomposition:** Decomposition products are carbon dioxide and carbon monoxide.

**Conditions to Avoid:** Contact with strong oxidizers and prolonged storage at elevated temperatures should be avoided.

#### Section 11. Toxicological Information

**Toxicology - Inhalation:** Inhalation toxicity data are not available for this product.

**Inhalation (Chronic Exposure):** Chronic inhalation exposure effects of this product are not known.

**Toxicological - Dermal:** Dermal toxicity data is not available for this product. However, it is not considered to be irritating.

**Skin Contact (Chronic):** Chronic dermal exposure effects for this product are not known.

**Toxicological - Eye:** While this product has not been tested, it is expected that it would be non-irritating to the eyes.

**Toxicological - Ingestion:** The oral LD50 for this material is > 5000 mg/kg in rats.

**Ingestion (Chronic):** Health effects as a result of chronic ingestion are not known.

**Carcinogenicity / Mutagenicity:** The carcinogenic / mutagenic properties of this product are not known.

**Reproductive Effects:** The reproductive toxicity of this product is not known.

**Neurotoxicity:** The neurotoxic effects of this product are not known.

**Other Toxicological Effects:** No other toxic effects for this product are known.

**Target Organs:** Target organ effects of this material are not available.

#### Section 12. Ecological Information

**Ecotoxicological Information:** The ecological toxicity of this product is not known.

**Distribution:** Other ecological information on this product is not known.

**Chemical Fate:** This product is completely biodegradable.

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**Shipping Description:** This product is not regulated for shipping

**Required Labels:** Not regulated for shipping; no transport labels required.

Environmentally hazardous substance.

This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix.

Section 15. Regulatory Information

**Component: Calcium Gluconate (Anhydrous) is subject to the following:**

**Environmental List**

DSL Domestic Substance List Canada  
TSCA Toxic Substance Control Act - listed

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**Environmental list**

DSL Domestic Substance List Canada  
TSCA Toxic Substance Control Act - listed

**Other Regulatory Information:** No other regulatory information is available on this product.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 7/9/2015