


**JIAAN BIOTECH, PITHAMPUR (MP) INDIA**

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Effective Date	02/12/2016		DOC NO.	JB/SG40/21/01	
Review On	Dec. 2022		REVISION NO	02	
<b>TITLE: Calcium Gluconate, MSDS</b>					

**1. IDENTIFICATION**

1.1	<b>Product Name</b>	:	<b>Calcium Gluconate Monohydrate</b>
1.2	<b>CAS NO.</b>	:	<b>299-28-5</b>
1.3	<b>Details of Supplier ( INDIA)</b>	:	<b>JIAAN BIOTECH , Plot 282-283, Pithampur Industrial Area, Sector 3,MP</b>
1.4	<b>Contact Number</b>	:	<b>+91-8349999795</b>
1.5	<b>Email</b>	:	<b>info@jiaanbiotech.com</b>
1.6	<b>Emergency Telephone Nos</b>	:	World directory of poisons centers : <a href="http://www.who.int/gho/phe/chemical_safety/poisons_centres_text/en/">http://www.who.int/gho/phe/chemical_safety/poisons_centres_text/en/</a>
1.7	<b>Relevant Identified Uses of the Substance/Mixture and Uses Advised Against:</b> Chelating agent in foods, dressings, electroplating, concrete mixtures		

**2.0 HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture:**

The product has not been classified as dangerous according to GHS.

**2.2 Health :** No Classification

**2.3 Physical :** No Classification

**2.4 Label elements:** Not applicable


**2.5 Other hazards:** No data available.

**3.0 Composition/Information on Ingredients**

**3.1 Mixture:**

<b>Chemical name</b>	<b>Concentration</b>	<b>CAS-No.</b>
Calcium Gluconate Monohydrate	98.5-100 %	18016-24-5
Calcium Gluconate Anhydrous		299-28-5

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**4.0 FIRST AID MEASURES**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
<b>Ingestion</b>	Do NOT induce vomiting. Get medical attention. Most important symptoms and effects
<b>No information available. Notes to Physician Treat symptomatically</b>	

**5.0 Fire and Explosion Data**

<b>Unsuitable Extinguishing Media</b>	No information available
<b>Flash Point</b>	> 170 °C / > 338 °F
<b>Method -</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Explosion Limits</b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Sensitivity to Mechanical Impact</b>	No information available
<b>Sensitivity to Static Discharge</b>	No information available
<b>Specific Hazards Arising from the Chemical</b>	
Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products	
Carbon monoxide (CO). Carbon dioxide (CO2).	
<b>Protective Equipment and Precautions for Firefighters</b>	

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**As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.**

NFPA

Health	Flammability	Instability	Physical hazards
1	1	1	N/A

**6.0 Accident Release Measures**

**Personal Precautions**                      **Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.**

**Environmental Precautions**            **Should not be released into the environment. See Section 12 for additional Ecological Information.**

**Methods for Containment and Clean Up**    **Sweep up and shovel into suitable containers for disposal. Avoid dust formation.**

**7.0 Handling and Storage**

**Handling**                      Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage**                      Keep containers tightly closed in a dry, cool and well-ventilated place.

**8.0 Exposure Controls/ Personal Protection**

**Exposure Guidelines**                      This product does not contain any hazardous materials with occupational exposure Limits established by the region-specific regulatory bodies.

**Engineering Measures**                      None under normal use conditions. Personal Protective Equipment


**Eye/face Protection**                      Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection**                      Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**                      No protective equipment is needed under normal use conditions.

**Hygiene Measures**                      Handle in accordance with good industrial hygiene and safety practice.

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**9.0 Physical and Chemical Properties**

<b>Physical State</b>	<b>Solid</b>
<b>Appearance</b>	<b>White</b>
<b>Odor</b>	<b>Odorless</b>
<b>Odor Threshold</b>	<b>No information available</b>
<b>pH</b>	<b>6-8 (10% solution)</b>
<b>Melting Point/Range</b>	<b>120 °C / 248 °F</b>
<b>Boiling Point/Range</b>	<b>No information available</b>
<b>Flash Point</b>	<b>&gt; 170 °C / &gt; 338 °F</b>
<b>Evaporation Rate</b>	<b>Not applicable</b>
<b>Flammability (solid,gas)</b>	<b>No information available</b>
<b>Flammability or explosive limits</b>	
<b>Upper</b>	<b>No data available</b>
<b>Lower</b>	<b>No data available</b>
<b>Vapor Pressure</b>	<b>No information available</b>
<b>Vapor Density</b>	<b>Not applicable</b>
<b>Specific Gravity</b>	<b>No information available</b>
<b>Solubility</b>	<b>Slightly soluble in water</b>
<b>Partition coefficient; n-octanol/water</b>	<b>No data available</b>
<b>Autoignition Temperature</b>	<b>No information available</b>
<b>Decomposition Temperature</b>	<b>No information available</b>
<b>Viscosity</b>	<b>Not applicable</b>
<b>Molecular Formula</b>	<b>C<sub>12</sub>H<sub>22</sub>CaO<sub>14</sub>.H<sub>2</sub>O</b>
<b>Molecular Weight</b>	<b>448.39</b>

**10.0 Stability and Reactivity Data**

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<b>Reactive Hazard</b>	None known, based on information available
<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat. Avoid dust formation.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing

**11.0 Toxicological Information**


<b>Acute Toxicity</b>	
<b>Product Information</b>	No acute toxicity information is available for this product
<b>Oral LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Dermal LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Mist LC50</b>	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

<b>Component Information</b>			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium gluconate, anhydrous	LD50 > 5000 mg/kg ( Rat )	Not Listed	Not Listed

<b>Toxicologically Synergistic</b>	No information available
<b>Products</b>	
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>	
<b>Irritation</b>	No information available
<b>Sensitization</b>	No information available
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

<b>Component</b>	<b>CAS-No</b>	<b>IARC</b>	<b>NTP</b>	<b>ACGIH</b>	<b>OSHA</b>	<b>Mexico</b>
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<b>Calcium gluconate monohydrate</b>	<b>18016-24-5</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>
<b>Calcium gluconate, anhydrous</b>	<b>299-28-5</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>	<b>Not listed</b>

<b>Mutagenic Effects</b>	<b>No information available</b>
<b>Reproductive Effects</b>	<b>No information available.</b>
<b>Developmental Effects</b>	<b>No information available.</b>
<b>Teratogenicity</b>	<b>No information available.</b>
<b>STOT - single exposure</b>	<b>None known</b>
<b>STOT - repeated exposure</b>	<b>None known</b>
<b>Aspiration hazard</b>	<b>No information available</b>
<b>Symptoms / effects, both acute and delayed</b>	<b>No information available</b>
<b>Endocrine Disruptor Information</b>	<b>No information available</b>
<b>Other Adverse Effects</b>	<b>The toxicological properties have not been fully investigated.</b>

**12.0 Ecological Information**

<b>Ecotoxicity</b>	
<b>Persistence and Degradability</b>	<b>No information available</b>
<b>Bioaccumulation/ Accumulation</b>	<b>No information available.</b>
<b>Mobility</b>	<b>No information available.</b>

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**13.0 Disposal Considerations**

Waste Disposal Methods                      Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**14.0 Transport Information**

DOT Not regulated  
TDG Not regulated  
IATA Not regulated  
IMDG/IMO Not regulated

**15.0 Other Regulatory Information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: This Safety Data Sheet is in conformity with appendix 4 of the GHS (Globally Harmonized System of Classification and Labelling of Chemicals).

**16.0 Other Information**

Abbreviations:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

Disclaimer: The information provided in this Material Safety Data Sheet (MSDS) relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. It is the responsibility of the user to be aware of and to follow the regulations applying to our product for its possession, handling and use. The information given is designed only as a guidance and is not to be considered a warranty or quality specification. All information and instructions provided in this MSDS are based on the current state of our knowledge at the latest revision date indicated.