



WEST BENGAL CHEMICAL INDUSTRIES LIMITED
145/1, Jessore Road, Lake Town,
Kolkata – 700 089, India.
Phone: +9133 4025 1700 Fax: +9133 2574 7410
Email: wbcil@wbcil.com Website: www.wbcil.com

Section 1 - Chemical Product and Company Identification

Product Name: Calcium Lactate Gluconate

Product Code: CLG1113

Company Identification:

WEST BENGAL CHEMICAL INDUSTRIES LIMITED

145/1, Jessore Road, Lake Town,

Kolkata – 700 089, India.

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Section 2 - Composition / Information on Ingredients

Chemical Name Of The Material Calcium Lactate Gluconate

Chemical Family Salts Of Organic Acid

Synonyms Calcium Lacto gluconate: Calcium (S)-2-hydroxypropanoate 2,3,4,5,6 - pentahydroxy hexanoate

Molecular Weight: 324.29 gm/mol

Formula : $C_9H_{16}O_{10}Ca$

CAS Number : 11116-97-5

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





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Section 3 - Hazards Identification

GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910 Classification according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

Hazards not otherwise classified (HNOC):

May causes mild skin irritation. May causes mild eye irritation.

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists get medical advice/attention.

OSHA Hazards: No known OSHA hazards.

Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity, single exposure (Category 3), H335



Health	1
Flammability	1
Physical Hazard	0
Personal protection	E

HMIS RATINGS (0-4)





Section 4 - First Aid Measures

General advice: No hazards which require special first aid measures. If you feel unwell, seek medical advice.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Skin contact: Flush with water.

Eye contact: Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.

Ingestion: No emergency action anticipated.

Protection of first-aiders: No hazards which require special first aid measures.

Section 5 - Fire-Fighting Measures

Flash Point >100°C Closed Cup

Flammable Limits N/A

Auto ignition temperature Not Known

General Negligible fire hazard. Dust/Air may form explosive mixture

Suitable extinguishing media Use extinguishing agents for surrounding materials

Extinguishing media which must not be used for safety reasons None

Hazardous decomposition products Thermal decomposition may result in toxic fumes of calcium and carbon monoxide and carbon dioxide.

Special protective equipment Use personal protective equipment including self-contained breathing apparatus when fighting fire in enclosed area.

Specific methods Standard procedure for chemical fires

Section 6 - Accidental Release Measures

Personal precautions Use personal protective equipment. Avoid dust formation.

Environmental precautions Dispose according to federal, state and local authorities.

Methods for cleaning up Sweep up and shovel. After cleaning, flush away traces with water.

Methods and material for containment and cleaning up Minor Spills Clean up all spills immediately.

Avoid breathing dust and contact with skin and eyes.

Wear protective clothing, gloves, safety glasses and dust respirator.

Use dry clean up procedures and avoid generating dust. Sweep up, shovel up or Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).

Place spilled material in clean, dry, sealable, labelled container. Major Spills Moderate hazard.

CAUTION: Advise personnel in area. Alert Emergency Services and tell them location and nature of hazard. Control personal contact by wearing protective clothing.





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Section 6 - Accidental Release Measures

Prevent, by any means available, spillage from entering drains or water courses.

Recover product wherever possible.

IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal.

IF WET: Vacuum/shovel up and place in labelled containers for disposal.

ALWAYS: Wash area down with large amounts of water and prevent runoff into drains. If contamination of drains or waterways occurs, advise Emergency Services.

Section 7 - Handling and Storage

HANDLING

Technical measures/Precautions No special technical protective measures required.

Safe handling advice No special handling advice required.

STORAGE

Technical measures/Storage conditions Keep tightly closed in a dry and cool place.

Incompatible products No special restrictions on storage with other products.

Packaging material Store in original container.

Maximum Storage Temperature 68.00°F (20.00°C)

Storage Temperature +20°C

Section 8 - Exposure Controls / Personal Protection

Engineering measures Provide general dilute ventilation.

Exposure limit(s) None established for this ingredient use OSHA PEL, ACGIH TLV for Nuisance dusts of 5 mg/ m³.

Personal protection equipment

Respiratory protection NIOSH approved dust respirator recommended

Hand protection Gloves

Eye Protection Safety glasses Skin and body protection Lightweight protective clothing Hygiene measures Handle in accordance with good industrial hygiene and safety practice





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Section 9 - Physical and Chemical Properties

Form	Coarse powder
Color	White
Odor	odorless or slight characteristic odor
pH (10% solution)	6.0 – 7.1
Vapor pressure	N/A
Vapor density	N/A
Boiling point	Unknown
Evaporation rate	N/A
Coefficient of water/oil distribution	Unknown
Melting point/range	284.00°F/140°C
Decomposition temperature	>170°C
Relative density	Unknown
Bulk density	300 to 600 kg/m ³
Explosive properties	Unknown
Water solubility g/kg	0.~400g/l @ 25°C
Other Decomposition Temperature	approx. 170°C
Phase Transition Solid/Liquid	180 °C
Phase Transition Liquid/Gas	673.6 °C
Explosion limits	Dust explosion constant : 29 bar.m/s
Min. ignition temperature	610°C
Min. ignition energy	> 8700 mJ
Explosion class	ST 1
Max. pressure increase rate	105 bar/s
Max. Explosion overpressure	5.1 bar

Section 10 - Stability and Reactivity

Stability	Stable at normal conditions
Conditions to avoid	Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Materials to avoid	None known.
Hazardous Polymerization	Does not occur.

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





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Section 11 - Toxicological Information

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 nonirritating 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

Mobility Completely soluble

Persistence and degradability

Chemical oxygen demand 696 mg O² /g (type CLG 10) 559 mg O/g (type LG 13)

Biochemical oxygen demand within 5 days (BOD5) = Not available


Bioaccumulation Not available

Eco toxicity effects Not available

Section 13 - Disposal Considerations

Waste from residues/unused products Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).


Section 14 - Transport Information

DOT Classification	:	Not a DOT controlled material
Air transport Goods	:	Nonhazardous/non dangerous as per IATA DGR.
Special Provision for Transport	:	Not applicable
IATA Specification	:	Non-dangerous, non-hazardous
DOT (Pictograms) AS PER IATA REGULATION SAFE FOR CARRAGE, NON-HAZARDOUS AND NON-RESTRICTED. NO SPECIAL LABELLING OR TRANSPORT MEASURE HAVE BEEN IDENTIFIED. THIS IS NOT REGULATED AS PER IATA REGULATION		





Section 15 - Regulatory Information

FEDERAL AND STATE REGULATION	:	No Products were found.	
WHIMS (CANADA) DSCL (EEC)	:	Not controlled under WHIMS (CANADA) This product is not classified according to EU regulations.	
OTHER REGULATIONS	:	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.	
HMIS (USA) HEALTH HAZARD FIRE HAZARD REACTIVITY PERSONAL PROTECTION PROTECTIVE EQUIPMENT	:	1 1 0 E Gloves. Lab coat. Dust Respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.	

Section 16 - Other Information

Disclaimer: This material safety data sheet is provided as an information resource only. WEST BENGAL CHEMICAL INDUSTRIES LIMITED believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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