CA147, Calcium Glycerophosphate, FCC

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- General Lot Numbering System Guidance
- Halal Certificate
# Specification for Calcium Glycerophosphate, FCC (CA147)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>CA147</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item</td>
<td>Calcium Glycerophosphate, FCC</td>
</tr>
<tr>
<td>CAS Number</td>
<td>27214-00-2</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>C₃H₇CaO₆P</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>210.14</td>
</tr>
<tr>
<td>MDL Number</td>
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<tr>
<td>Synonyms</td>
<td>Glycerophosphoric Acid Calcium Salt</td>
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<table>
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<th>Specification</th>
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<tbody>
<tr>
<td></td>
<td>Min</td>
</tr>
<tr>
<td>ASSAY (C₃H₇CaO₆P)</td>
<td>98.0</td>
</tr>
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<td>ALKALINITY</td>
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<tr>
<td>LOSS ON DRYING</td>
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<tr>
<td>LEAD (Pb)</td>
<td></td>
</tr>
<tr>
<td>IDENTIFICATION</td>
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<tr>
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<td>APPEARANCE</td>
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<tr>
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<td>MONOGRAPH EDITION</td>
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**Spectrum Chemical Mfg Corp**

**Corporate Headquarters:**
769 Jersey Ave.
New Brunswick, NJ 08901
732.214.1300

**West Coast Facility:**
14422 S. San Pedro St.
Gardena, CA 90248
310.516.8000
Certificate Of Analysis

Item Number  CA147  Lot Number  1LF1264
Item  Calcium Glycerophosphate, FCC  CAS Number  27214-00-2
Molecular Formula  C$_3$H$_7$CaO$_6$P  Molecular Weight  210.14

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<th>RESULT</th>
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<tr>
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<td>MIN</td>
<td>MAX</td>
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<tr>
<td>ASSAY (C$_3$H$_7$CaO$_6$P)</td>
<td>98.0</td>
<td>100.5 %</td>
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<tr>
<td>ALKALINITY</td>
<td>1.5 ml</td>
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<td>LOSS ON DRYING</td>
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<td>LEAD (Pb)</td>
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<td>CERTIFIED HALAL</td>
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Certificate of Analysis Results Entered By: HBERMUDEZ
Hernan Bermudez
06-JUL-22 10:12:35

Certificate of Analysis Results Approved By: JAMAYA
Javier Amaya
06-JUL-22 01:32:01

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.
# SAFETY DATA SHEET

## 1. IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>Product identifier</strong></th>
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<tr>
<td><strong>Product code:</strong></td>
<td>CA147</td>
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<tr>
<td><strong>Product Name:</strong></td>
<td>CALCIUM GLYCEROPHOSPHATE, FCC</td>
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</table>

**Other means of identification**

<table>
<thead>
<tr>
<th><strong>Synonyms:</strong></th>
<th>No information available</th>
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<tbody>
<tr>
<td><strong>CAS #:</strong></td>
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<tr>
<td><strong>RTECS #:</strong></td>
<td>Not available</td>
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<tr>
<td><strong>Cl#:</strong></td>
<td>Not available</td>
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**Recommended use of the chemical and restrictions on use**

<table>
<thead>
<tr>
<th><strong>Recommended use:</strong></th>
<th>No information available.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Uses advised against</strong></td>
<td>No information available</td>
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</table>

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000  

**Order Online At:**  
[https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number:** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)  

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label elements**

- Not classified

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
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<tbody>
<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>100</td>
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</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause eye/skin irritation
Health injuries are not known or expected under normal use

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry powder. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical


Specific hazards: May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus.

Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>27214-00-2</td>
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Canada

<table>
<thead>
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<th>Components</th>
<th>CAS-No.</th>
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Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
Australia and Mexico

<table>
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<th>Components</th>
<th>CAS-No.</th>
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<th>Mexico</th>
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<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Chemical resistant apron
Gloves
Long sleeved clothing

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
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<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
<th>Formula:</th>
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</thead>
<tbody>
<tr>
<td>Solid</td>
<td>Fine powder.</td>
<td>White.</td>
<td>C3H7CaO6P</td>
</tr>
</tbody>
</table>

**Odor:** Odorless.

**Taste**
Tasteless.

**Molecular/Formula weight (g/mole):**
210.15 g/mole

**Flammability:**
No information available

**Flash Point Tested according to:**
Not available

**Autoignition Temperature (°C/°F):**
No information available

**Lower Explosion Limit (%):**
No information available

**Upper Explosion Limit (%):**
No information available

**Melting point/range(°C/°F):**
170°C (338°F)

**Decomposition temperature(°C/°F):**
No information available

**Boiling point/range(°C/°F):**
No information available

**Bulk density:**
No information available

**Density (g/cm3):**
No information available

**Specific gravity:**
No information available

**pH:**
No information available

**Vapor pressure @ 20°C (kPa):**
No information available

**Product code:** CA147

**Product name:** CALCIUM GLYCEROPHOSPHATE, FCC
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Incompatible Materials: Oxidizing agents
Hazardous decomposition products: No information available.
Other Information
Corrosivity: Non-corrosive in the presence of glass

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Component Information
Calcium Glycerophosphate
CAS-No. 27214-00-2
LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information
Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
LD50/oral/rat =
VALUE - Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE - Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE - Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE - Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation May cause respiratory tract irritation.
Ingestion Health injuries are not known or expected under normal use.
Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity No information available.
Sensitization: No information available.
Mutagenic Effects: No information available
Carcinogenic effects: Not considered carcinogenic.

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
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<th>OSHA HCS - Carcinogens</th>
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ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available.
STOT - repeated exposure: No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

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14. TRANSPORT INFORMATION

DOT

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TDG (Canada)

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Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available
Description: No information available

ADR
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available

IMO / IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant: No information available

RID
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

ICAO
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>Present</td>
<td>Present KE-25496</td>
<td>Present</td>
<td>Present (2)-1905</td>
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U.S. Regulations

*Calcium Glycerophosphate*

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1201
FDA - 21 CFR - Total Food Additives 175.300, 181.29, 184.1201

Product code: CA147
Product name: CALCIUM GLYCEROPHOSPHATE, FCC
- List Sourced from EAFUS


**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
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<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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**CERCLA/SARA**

<table>
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<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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**U.S. TSCA**

<table>
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<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>27214-00-2</td>
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**Canada**

**WHIMIS 2015 - GHS Classifications**

WHIMIS 2015 Hazard Classification Information: Not a dangerous product according to HPR classification criteria.

**Canada Hazardous Products Regulation**
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

**Inventory**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Glycerophosphate</td>
<td>27214-00-2</td>
<td></td>
</tr>
</tbody>
</table>

**Product code:** CA147  
**Product name:** CALCIUM GLYCEROPHOSPHATE, FCC
EU - CLP (1272/2008)

R-phrase(s)
not determined (not applicable)

S-phrase(s)
one

Components | CAS-No. | Classification | Concentration Limits: | Safety Phrases
---|---|---|---|---
Calcium Glycerophosphate | 27214-00-2 | | No information | 

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
None.

16. OTHER INFORMATION

Preparation Date: 5/22/2017
Revision Date: 11/6/2018
Prepared by: Sonia Owen

Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet
Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA147</td>
<td>Calcium Glycerophosphate, FCC</td>
</tr>
</tbody>
</table>

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

- Spectrum-Gardena, CA: 2020632
- Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at qualityassurance@spectrumchemical.com

Sincerely,

Oralia Chavez  
Quality Assurance Specialist
Fresh MeOH washing

Drying

Multi mill

Lumps

Sifter

Blending

Packing CGP
Source Statement
The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

BSE/TSE Statement
The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

Allergen Statement
The above mentioned catalog item does not contain any of the following:
- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy
- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

EU Fragrance Allergen Statement
The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

GMO Statement
The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

Melamine Statement
The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.
Animal Testing Statement

The above mentioned catalog item has not been tested on animals.

Organic Compliance Statement

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

Shelf Life Statement

The above-mentioned catalog item is typically assigned a shelf life of 60 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

Other Chemicals Statement

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances
- Parabens
- Pesticides
- Phthalates
The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication. Below you will find a typical label example for this catalog item.

**G 8/H6GHS**

**Lot No. XQ####**
RE: Lot Numbering System

Dear Valued Customer:

This letter is to inform you of Spectrum Chemicals and Laboratory Products’ Lot Numbering System. The system is based on an alpha-numerical sequence which provides the month, year and location of production.

The lot numbering system utilized until 2010 is a sequence of six characters, two letters followed by four numbers. The first letter represents the year, for example, Y denotes 2009 and Z denotes 2010. The second letter represents the month and site, for example, A-L denotes January through December at Spectrum’s Gardena, CA facility, while M-X denotes January through December at the New Brunswick, NJ facility. The following four numbers are sequentially assigned.

Example: ZI0928 = The 928th material produced in California in September 2010

The lot numbering system utilized for 2011 and forward, is a sequence of seven characters. The first character, a number, represents the production facility:

1 = Gardena, CA Facility
2 = New Brunswick, NJ Facility
3 = China Facility
4 = Pharmacy, NJ Facility

The second character, a letter, represents the year. For example, A denotes 2011 and B denotes 2012. The third character, a letter, represents the month, with A denoting January and L denoting December. The following four numbers are sequentially assigned.

Example: 2AA0706 = The 706th material produced in New Jersey in January 2011

Thank you for your interest with Spectrum products. Please feel free to contact us at 310-516-8000 or via email at quality_assurance@spectrumchemical.com if we may be of further assistance.

Sincerely,

Oralia Chavez,
Quality Assurance Specialist
This is to certify that the following product(s) have been produced under the supervision of the Islamic Food and Nutrition Council of America (IFANCA). The production facility as well as component ingredients have been reviewed and approved. The product(s) are in compliance with the halal requirements under Islamic laws.

Date: November 02, 2021
Document #: 11205.11206.II213952

<table>
<thead>
<tr>
<th>Product Name &amp; Address:</th>
<th>Spectrum Laboratory Products, Inc. 755-769 Jersey Ave New Brunswick, New Jersey 08901 USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name &amp; Address:</td>
<td>Spectrum Laboratory Products, Inc. 769-Jersey Ave New Brunswick, New Jersey 08901 USA</td>
</tr>
<tr>
<td>Plant Name &amp; Address:</td>
<td>Spectrum Laboratory Products, Inc. 769-Jersey Ave New Brunswick, New Jersey 08901 USA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ProductName</th>
<th>Product Code</th>
<th>Halal-ID</th>
<th>Product Certificate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Calcium Glycerophosphate, FCC</td>
<td>CA147</td>
<td>B93995</td>
<td>HC-21SP8624</td>
</tr>
</tbody>
</table>

Muhammad Munir Chaudry, Ph.D.  
President

This Certificate is valid until **August 31, 2022** and subject to renewal at that time.