



## SAFETY DATA SHEET



Distributed by:  
Laguna Clay Company  
14400 Lomitas Ave  
City of Industry, CA 91746  
1-800-4Laguna  
info@lagunaclay.com  
www.lagunaclay.com

### Tri Calcium Phosphate

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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

#### Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

##### Identification of the substance/preparation

**Product name:** Tri calcium phosphate

**Chemical name (e.g. IUPAC name):** Tri calcium phosphate

**Trade names:** Calcium phosphate-Tri basic

**Synonyms:** N/A

##### Use of the substance/preparation:

Food fortification.

Free flowing agent for powdered products such as icing sugar, flours and dry bases for soups and drinks.

Dispersant in tablet manufacture.

Polymerization of styrene.

Ceramic coloring agent.

##### Company/undertaking identification

**Supplier/Manufacturer:** Gadot Biochemical Industries Ltd.

117-119 Hahistadrut Rd.

POB 10636

Haifa Bay 26118

Israel

Tel: +972-4-8461555

Fax: +972-4-8461560

##### E-mail address of person responsible for this SDS:

Nissim Guigui - R&D and Quality Manager

nissim@gadotbio.com

**Emergency telephone number (with hours of operation):** +972-4-8461555

#### Section 2. HAZARDS IDENTIFICATION

**According to EC Directive 2001/59/EC**

##### Most Important Hazards

Not classified

##### Classification

Not classified

##### GHS-Classification

##### Hazards Statements

Not classified

##### Signal Word

Not classified

**See section 11 for more detailed information on health effects and symptoms.**



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### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation:**

Chemical name: Tri calcium phosphate

 Formula:  $Ca_3(OH)(PO_4)_3$ 

Molecular weight: 502.31g/mol

Ingredient name	CAS number	%	EC number	EU Classification	GHS Classification
Tri calcium phosphate	12167-74-7 1306-06-5 7758-87-4	100%	235-330-6 215-145-7	Not classified	Not classified
See section 16 for the full text of the R-phrases declared above					

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

### Section 4. FIRST AID MEASURES

**Eyes contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating eye lids with fingers. Call a physician.

**Skin contact:** In case of contact, immediately wash with soap and plenty of water at least 15 min. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use. Call a physician.

**Inhalation:** If respiratory irritation or distress occurs, remove victim to fresh air and keep him calm. Apply artificial respiration if necessary and get medical attention immediately.

**Ingestion:** If victim conscious and alert, give water to drink. DO NOT INDUCE VOMITING. Do not give anything by mouth to an unconscious person. Get medical attention.

**Expected delayed effects:** N/A

See section 11 for more detailed information on health effects and symptoms.

### Section 5: Fire-Fighting Measures

**Extinguishing media**

Suitable: Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

Not suitable: N/A

**Special exposure hazards arising from the substance/preparation including combustion products and gases:** Under fire emits irritating and toxic fumes.



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**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

**Further information:** Move containers from fire area if possible to do so without risk.

### Section 6: Accidental Release Measures

**Personal precautions:** Wear protective clothing. Avoid contact with skin eyes and inhalation of dust. Remove all sources of ignition. Ventilate area of spill. Avoid dust formation.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### Section 7: Handling and Storage

**Handling:** Avoid contact with eyes, skin and clothing. Do not permit eating/drinking/smoking near the material. Keep away from heat, sparks and open flame. Avoid raising dust.

**Storage:** Keep containers tightly closed, in dry, cool and well-ventilated place. Do not store together with strong oxidizing agents, trimethylol propane or trimethylol propane derived products.

### Section 8: Exposure Control / Personal Protection

**Exposure limit values:** N/A

#### Exposure controls

**Occupational exposure controls:** Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Respiratory protection: Dust mask. Be sure to use an approved/certified or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hand protection: Chemically compatible gloves.

Eye protection: Wear safety glasses with side-shields.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hygiene measures: Wash thoroughly after handling.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.



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#### Section 9: Physical and Chemical Properties

##### General information

Physical state: Solid-powder  
Color: White  
Odor: No unusual odor

##### Safety data

pH: N/A  
Boiling point/boiling range: N/A  
Flash point: Not flammable  
Flammability (solid, gas): N/A  
Explosive properties: N/A  
Oxidizing properties: N/A  
Vapor pressure: N/A  
Water solubility: Insoluble  
Relative density: N/A  
Octanol/Water partition coefficient: N/A  
Viscosity: N/A  
Vapor density: 6.8 (air=1)  
Evaporation rate (butyl acetate=1): N/A

##### Other information:

Melting point/melting range: 1100 °C – lit.  
Auto-ignition temperature: N/A  
Density: 3.140 g/cm<sup>3</sup>

#### Section 10: Stability and Reactivity

**Stability:** Stable at ambient temperature and atmospheric pressure.

**Conditions to avoid:** N/A

**Materials to avoid:** Strong oxidizing agents, trimethylol propane or trimethylol propane derived products.

**Hazardous Decomposition products:** Oxides of phosphorus, Calcium oxide.

**Hazard polymerization:** N/A

#### Section 11: Toxicological Information

##### Potential acute health effects

##### Acute toxicity:

Product/ingredient name	Test	Species	Dose
Tri Calcium Phosphate	LD50, Oral	Rat	25350 mg/kg
	LD50, Oral	Mouse	99500 mg/kg



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**Irritation and corrosivity:**

Inhalation: May be harmful if inhaled. Toxic to lungs and mucous membranes. May cause respiratory track irritation. May cause coughing, sneezing and labored breathing.

Ingestion: May be harmful if swallowed. Large quantities may cause nausea, vomiting, cramps and diarrhea.

Skin contact: May be harmful if absorbed through skin. May cause skin irritation.

Eyes contact: May cause eye irritation.

**Sensitization:** May cause some allergic reactions.

**CMR Effects**

Carcinogenicity: N/A

Mutagenicity: N/A

Reproductive toxicity: N/A

**Other effects**

Over exposure signs/symptoms: N/A

**Section 12: Ecological Information**

**Ecotoxicity:** N/A

**Mobility:** N/A

**Persistence and Degradability:** N/A

**Bioaccumulative potential:** N/A

**Result of PBT assessment (if CSR is required):** N/A

**Other adverse effects:**

Substances which have an unfavorable influence on the oxygen balance and can be measured using parameters such as BOD, COD, etc.: N/A

Substances, which contribute to eutrophication: N/A

Remarks: N/A

**Section 13: Disposal Considerations**

**Methods of disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Hazardous waste:** N/A



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#### Section 14: Transport Information

**International transport regulations:** Not regulated by ADR/RID, IMDG or IATA.

National Fire Protection Association Hazard Ratings- NFPA (R):

- 1 Health Hazard Rating – Moderate
- 0 Flammability Rating – Minimal
- 0 Instability Rating – Minimal

#### Section 15: Regulatory Information

**Classification and labeling according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use:**

**Labelling in accordance with EC directives:**

Not required

**Risk phrases:**

Not classified

**Safety phrases:**

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S24/25: Avoid contact with skin and eyes

**Classification and labeling according to EU Regulation (EC) 1272/2008 (CLP Regulation) and Globally Harmonized System (GHS):**

**Signal Word:** Not required

**Hazards Statements:**

Not classified

**Precautionary Statements**

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P264: Wash thoroughly after handling  
P280: Wear protective gloves/protective clothing/eye protection/face protection

National Paint & Coating Hazardous Materials Identification System – HMIS (R):

- 1 Health Hazard Rating - Moderate
- 0 Flammability Rating - Minimal
- 0 Instability Rating - Minimal
- D Personal Protection

#### Section 16: Other Information

**Full text of R-phrases referred to in sections 2 and 3:** N/A

**Full text of Hazards Statements referred to in sections 2 and 3:** N/A



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**Training advice:** Before using/handling the product one must read carefully present MSDS.

**Recommended restriction:** N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined

N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

Date of issue: 29<sup>th</sup> November 2010

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Version no. 2

According to Regulation (EC) No. 1907/2006 (REACH), Annex II, Commission Directive 2001/59/EC and REGULATION (EC) No 1272/2008 (CLP).

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.