



SAFETY DATA SHEET

Tri Calcium Phosphate

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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation")

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Tri calcium phosphate

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

Trade names: Calcium phosphate-Tri basic

1.2 Relevant identified uses of the substance or mixture and uses advised against

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.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 (OSHA HCS):

Not classified.

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP):

Not classified.

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DPD):

Not classified.

See section 16 for the full text of the R-phrases and H-statements declared above.



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2.2 Label elements

Classification according to 29 CFR 1910.1200 (OSHA HCS)

Hazard pictogram(s): Not required

Signal word: None

Hazard statement(s): Not required

Precautionary Statement(s): Not required

Labelling in accordance with Regulation 1272/2008 (CLP)

Hazard pictogram(s): Not required

Signal word: None

Hazard statement(s): Not required

Precautionary Statement(s): Not required

Labelling in accordance with 67/548/EEC as amended

Hazard symbol(s): Not required

Risk phrases: Not required

Safety phrases: Not required

2.3 Other hazard

Not available

SECTION 3: Composition/information on ingredients

3.1 Substance:

Ingredient name	Identifiers	%	EU Classification	CLP/GHS Classification
Tri calcium phosphate	CAS number: 12167-74-7; 1306-06-5 EC number: 235-330-6; 215-145-7	100	Not classified	Not classified

See section 16 for the full text of the R-phrases and H-statements 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

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water for at least 15 minutes. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: **Do not induce vomiting.** If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.



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4.2 Most important symptoms and effects, both acute and delayed

See section 2.2 (Label elements) and/or section 11 (Toxicological information) for the most important known symptoms and effects.

4.3 Indication of any immediate medical attention and special treatment needed

Not available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Non-combustible. Hazardous combustion products:

Under fire emits irritating and toxic fumes.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

Large spill: As for small spill

6.4 Reference to other sections

See Section 1 for emergency contact information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapors, mist or gas. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

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



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products. Keep away from heat. Packaging materials Recommended: Use original container.

7.3 Specific end use(s): N/A

SECTION 8: Exposure control/personal protection

8.1 Control parameters: N/A

8.2 Exposure controls

Engineering measures

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.

Person Protective measures

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

Hand protection: Wear protective gloves to prevent skin exposure.

Eye protection: Wear protective safety glasses.

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

Environmental exposure controls: Not available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Solid –powder

Color: white

Odour: No unusual odor

Odour threshold: N/A

PH: N/A

Melting point/Freezing point: 1100 °C

Initial boiling point/boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not Volatile (butyl acetate=1)

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: 6.8 (air=1)

Relative Density: 3.140 g/cm³

Solubility(ies): Insoluble in water

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: Not applicable

Decomposition temperature: N/A

Viscosity: Not Viscous

Explosive properties: Not explosive

Oxidizing properties: Not oxidizer

9.2 Other information

Molecular weight: 502.31 g/mol



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SECTION 10: Stability and reactivity

10.1 Reactivity

Not available.

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

N/A

10.5 Incompatible materials

Strong oxidizing agents strong oxidizing agents, trimethylol propane or trimethylol propane derived products.

10.6 Hazardous decomposition products

Other decomposition products: not available.

In the event of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
Tri calcium phosphate	LD50, Oral	Rat	>25350 mg/kg
	LD50, Oral	Mouse	>99500 mg/kg

Skin corrosion/irritation: N/A

Serious eye damage/irritation: Not available

Respiratory or skin sensitization: May cause some allergic reactions

Germ cell mutagenicity: Not available

Carcinogenicity: Not available

Reproductive toxicity: Not available

Specific target organ toxicity (single exposure): Not available

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Other symptoms:

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



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

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

Eyes contact: May causes eye irritation.

SECTION 12: Ecological information

12.1 Toxicity

Not available

12.2 Persistence and Degradability

Not applicable, since inorganic substance.

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

14.1 Un number

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

14.2 UN proper shipping name

ADR/RID: Not regulated

IMDG: Not regulated

IATA: Not regulated

DOT (US): Not regulated

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -



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14.5 Environmental hazard

ADR/RID: -

IMDG: -

IATA: -

DOT (US): -

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

SECTION 15: Regulatory information

This SDS complies with the following requirements of:
EU Directives 67/548/EEC (DSD) and 1999/45/EC (DPD), including amendments
EU Regulation (EC) No.1907/2006 (REACH) including amendments
Regulation (EC) No.1272/2008 (CLP)
29 CFR 1910.1200 (OSHA HCS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA inventory

CAS 1306-06-5, listed.

15.2 Chemical safety assessment

Not available.

SECTION 16: Other information

HMIS Rating

Health hazard: 1

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

Full text of R-phrases referred to in sections 2 and 3:

None

Full text of Hazards Statements referred to in sections 2 and 3:

None

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

Key Legend Information:

CAS- Chemical Abstract Service

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer



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N/A- Not available

R-phrases- Risk phrases

H-statements- Hazard statements

TLV- Threshold Limit Value

TWA- Time-weighted average

STEL- Short-Term Exposure Limit

CSA- Chemical safety assessment

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