

# Dicalcium Phosphate (DCP) - MSDS

## MATERIAL SAFETY DATA SHEET

### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:**

Product name: Dicalcium Phosphate  
Product Number: FPM-6  
Brand: Pangoo  
CAS-No.: 68308-36-1

**Name of supplier, address and emergency telephone number:**

Company : Pangoo Biotech Hebei Co., Ltd.  
Add: Cangzhou, Hebei, China  
Emergency telephone number: +86-317-8585021

**Product use:** As feed additive for animals

**Date of MSDS preparation:** 11/21/2018

### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** Phosphoric acid, calcium salt (1:1)

**Chemical Formula:** CaHPO<sub>4</sub>

**Synonym:**

Dicalcium Orthophosphate; Dicalcium phosphate; Calcium hydrogen orthophosphate Calcium Hydrogen Phosphate; Calcium monohydrogen phosphaste

**Composition:**

Name	CAS #	% by Weight
Dicalcium Phosphate (Calcium phosphate dibasic)	7757-93-9	100

**Toxicological Data on Ingredients:** Calcium phosphate dibasic: ORAL (LD50): Acute: >10000 mg/kg [Rat]. DERMAL (LD50): Acute: >7940 mg/kg [Rabbit].

### SECTION 3 HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

Repeated or prolonged exposure is not known to aggravate medical condition.

CARCINOGENIC EFFECTS: N/A

MUTAGENIC EFFECTS: N/A

TERATOGENIC EFFECTS: N/A

DEVELOPMENTAL TOXICITY: N/A

### SECTION 4 FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Eye contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

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<b>Skin Contact:</b>	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<b>Serious Skin Contact:</b>	N/A
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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SECTION 5 FIRE FIGHTING MEASURES

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<b>Flammability of the Product:</b>	Non-flammable.
<b>Auto-Ignition Temperature:</b>	Not applicable.
<b>Flash Points:</b>	Not applicable.
<b>Flammable Limits:</b>	Not applicable.
<b>Products of Combustion:</b>	Not applicable.
<b>Fire Hazards in Presence of Various Substances:</b>	Not applicable.
<b>Explosion Hazards in Presence of Various Substances:</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>Fire Fighting Media and Instructions:</b>	Not applicable.
<b>Special Remarks on Fire Hazards:</b>	Not applicable.
<b>Special Remarks on Explosion Hazards:</b>	Not applicable.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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SECTION 7 HANDLING AND STORAGE

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**Precautions:**

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

**Storage:**

Keep container tightly closed. Keep container in a cool, well-ventilated area.

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Engineering Controls:**

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.

**Personal Protection:**

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:**

For Particulates Not Otherwise Classified (Nuisance dust): TWA: 10 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] Inhalation Total. TWA: 3 (mg/m<sup>3</sup>) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 15 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m<sup>3</sup>) from OSHA (PEL) [United States] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid. (Powdered solid.)
<b>Odor:</b>	Odorless.
<b>Taste:</b>	Tasteless.
<b>Molecular Weight:</b>	136.06 g/mole
<b>Color:</b>	White.
<b>pH (1% soln/water):</b>	6 - 7.4 (25% solution)
<b>Boiling Point:</b>	N/A
<b>Melting Point:</b>	Decomposes. (281°C or 537.8°F)
<b>Critical Temperature:</b>	N/A
<b>Specific Gravity:</b>	Density: 2.89 (Water = 1)
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Volatility:</b>	N/A
<b>Odor Threshold:</b>	N/A
<b>Water/Oil Dist. Coeff.:</b>	N/A
<b>Ionicity (in Water):</b>	N/A
<b>Dispersion Properties:</b>	N/A
<b>Solubility:</b>	Insoluble in cold water, hot water. Soluble in diluted hydrochloric, nitric, and acetic acids. Solubility in Water: 0.0316 g/100 ml @ 38 deg. C and 0.075 g/100 ml @ 100 deg. C

SECTION 10

STABILITY AND REACTIVITY

<b>Stability:</b>	The product is stable.
<b>Instability Temperature:</b>	N/A
<b>Conditions of Instability:</b>	Incompatible materials, dust generation
<b>Incompatibility with various substances:</b>	Reactive with oxidizing agents.
<b>Corrosivity:</b>	Non-corrosive in presence of glass.
<b>Special Remarks on Reactivity:</b>	N/A
<b>Special Remarks on Corrosivity:</b>	N/A
<b>Polymerization:</b>	Will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

**Routes of Entry:**

Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): >10000 mg/kg [Rat]. Acute dermal toxicity (LD50): >7940 mg/kg [Rabbit].

<b>Chronic Effects on Humans:</b>	N/A
<b>Other Toxic Effects on Humans:</b>	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
<b>Chronic:</b>	Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
<b>Special Remarks on Toxicity to Animals:</b>	N/A
<b>Special Remarks on Chronic Effects on Humans:</b>	N/A
<b>Special Remarks on other Toxic Effects on Humans:</b>	<p>Acute Potential Health Effects: Skin: Causes skin irritation. May cause dermatitis            Eyes: Causes eye irritation. Inhalation: May cause respiratory tract irritation with coughing and sneezing. Ingestion: Ingestion: May cause mild gastrointestinal tract irritation(distress), flatulence, cramps,nausea, vomiting, constipation or diarrhea. No adverse health effects are expected to develop if only small amounts(less than an mouthful) are swallowed. If ingested in large amounts, Calcium salts may affect cardiovascular system (hypertension, atrial fibrillation, vasodilation), behavior/nervous sytem (confusion, somnolence, coma, decreased tendon reflexes, depression, fatigue, hallucinations, lethargy, weakness, stupor), kidneys (abnormal renal function, renal calculas) depending on the amount and duration of ingestion. May also cause acidosis or alkalosis, hypercalcemia.</p> <p>Chronic Potential Health Effects: Skin: Repeated or prolonged contact may cause drying and chapping of the skin. The toxicological properties of this substance have not been fully investigated.</p>

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SECTION 12                      ECOLOGICAL INFORMATION

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<b>Ecotoxicity:</b>	Ecotoxicity in water (LC50): >1000 mg/l 96 hours [Daphnia (daphnia)].
<b>BOD5 and COD:</b>	N/A
<b>Products of Biodegradation:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation:</b>	The product itself and its products of degradation are not toxic.
<b>Special Remarks on the Products of Biodegradation:</b>	N/A

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SECTION 13                      DISPOSAL CONSIDERATIONS

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

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SECTION 14                      TRANSPORT INFORMATION

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<b>DOT (US) Identification</b>	Not a DOT controlled material (United States).
<b>Special Provisions for Transport:</b>	N/A

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SECTION 15                      REGULATORY INFORMATION

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<b>Federal and State Regulations:</b>	TSCA 8(b) inventory: Calcium phosphate dibasic
<b>Other Regulations:</b>	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
<b>Other Classifications:</b>	
<b>WHMIS (Canada):</b>	Not controlled under WHMIS (Canada). R36/38- Irritating to eyes and skin. S24/25- Avoid contact with skin and eyes. S26-

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<b>DSCL (EEC):</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36- Wear suitable protective clothing.
<b>HMIS (U.S.A.):</b>	Health Hazard: 1 Fire Hazard: 0 Reactivity: 0 Personal Protection: E
<b>National Fire Protection Association (U.S.A.):</b>	Health: 1 Flammability: 0 Reactivity: 0 Specific hazard:

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

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SECTION 16

OTHER INFORMATION

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"IMO" : not dangerous for sea transport

Disclaimer

*Additional references can be taken from the label or the product description. The information given here is correct to the best of our knowledge at the time of writing this sheet. No responsibility can be taken for improper use or handling of the product.*