



# ANHUI TIGER BIOTECHNOLOGY CO., LTD

Address: South Weiwu Road, Economic Development Zone, Guzhen  
Anhui, China

Tel: 0086-552-3160188/0086-552-4091318

## Material Safety Data Sheet

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

#### 1.1 Product identifiers

Product name : D-Calcium pantothenate

Brand: Tiger

Manufacturer: Anhui Tiger Biotechnology Co.,Ltd

Address: South Weiwu Road, Economic Development Zone, Guzhen, Bengbu, China

Technical Phone: 0086-552-3160188

Emergency Phone: 0086-5524091318

CAS#: 137-08-6 RTECS: RU4375000

TSCA: TSCA 8(b) inventory: Calcium pantothenate CI#: Not available.

Synonym: Vitamin B5; D-Pantothenic acid calcium salt; (+)-Pantothenic acid calcium salt; (R)-N-(2,4-Dihydroxy-3,3-dimethyl-1-oxobutyl)-B-alanine calcium salt

Chemical Name: d-Calcium Pantothenate

Chemical Formula: C<sub>18</sub>H<sub>32</sub>CaN<sub>2</sub>O<sub>10</sub>

### SECTION 2: Composition, Information on Ingredients

#### 2.1 Composition:

Name: Calcium pantothenate

CAS: 137-08-6

% by Weight: 100

#### 2.2 Toxicological Data on Ingredients:

Calcium pantothenate: ORAL (LD50): Acute: >10000 mg/kg [Mouse]. >10000 mg/kg [Rat].



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## SECTION 3: Hazards identification

### 3.1 Potential Acute Health Effects:

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

### 3.2 Potential Chronic Health Effects:

Carcinogenic effects: Not available.

Mutagenic effects: Not available.

Teratogenic effects: Not available.

Developmental toxicity: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

## SECTION 4: First aid measures

### 4.1 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. Cold water may be used. Get medical attention.

### 4.2 Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

## SECTION 5: Fire and Explosion Data

**5.1 Flammability of the Product:** May be combustible at high temperature.

**5.2 Auto-Ignition Temperature:** Not available.

**5.3 Flash Points:** Closed cup: Higher than 93.3°C (200°F).

**5.4 Flammable Limits:** Not available.

**5.5 Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...). Some metallic oxides.

**5.6 Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

### 5.7 Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of



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explosion of the product in presence of static discharge: Not available.

**5.8 Fire Fighting Media and Instructions:** SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**5.9 Special Remarks on Fire Hazards:** Not available.

**5.10 Special Remarks on Explosion Hazards:** Not available.

### SECTION 6: Accidental Release Measures

#### 6.1 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.

**6.2 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.

### SECTION 7: Handling and storage:

#### 7.1 Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids, alkalis.

#### 7.2 Storage:

Light Sensitive. Hygroscopic. Store in light-resistant containers. Keep container tightly closed. Keep container in a cool, well ventilated area.

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1 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.

#### 8.2 Personal Protection:

Splash goggles. Lab coat. Dust respirator. Gloves. Be sure to use an approved/certified



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respirator or equivalent.

### 8.3 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.

**8.4 Exposure Limits:** Not available.

## SECTION 9: Physical and chemical properties

**9.1 Physical state and appearance:** Solid. (Solid crystalline powder.)

**9.2 Odor:** Almost Odorless.

**9.3 Taste:** Sweetish with bitter after taste

**9.4 Molecular Weight:** 476.54 g/mole

**9.5 Color:** White.

**9.6 pH (1% soln/water):** Not available.

**9.7 Boiling Point:** Not available.

**9.8 Melting Point:** 195°C (383°F)

**9.10 Critical Temperature:** Not available.

**9.11 Specific Gravity:** 0.6 (Water = 1)

**9.12 Vapor Pressure:** Not applicable.

**9.13 Vapor Density:** Not available.

**9.14 Volatility:** Not available.

**9.15 Odor Threshold:** Not available.

**9.16 Water/Oil Dist. Coeff.:** Not available.

**9.17 Ionicity (in Water):** Not available.

**9.18 Dispersion Properties:** See solubility in water, methanol, acetone.

**9.19 Solubility:** Soluble in cold water, hot water, methanol, acetone, glycerin. Very slightly soluble in diethyl ether. Moderately soluble in Ethanol. Virtually insoluble in chloroform.

## SECTION 10: Stability and reactivity



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**10.1 Stability:** The product is stable.

**10.2 Instability Temperature:** Not available.

**10.3 Conditions of Instability:** Not available.

**10.4 Incompatibility with various substances:** Reactive with acids, alkalis.

**10.5 Corrosivity:** Non-corrosive in presence of glass.

**10.6 Special Remarks on Reactivity:** Hygroscopic.

**10.7 Light Sensitive Special Remarks on Corrosivity:** Not available.

**10.8 Polymerization:** Will not occur.

### SECTION 11: Toxicological informations

**11.1 Routes of Entry:** Inhalation. Ingestion.

**11.2 Toxicity to Animals:** Acute oral toxicity (LD50): >10000 mg/kg [Rat].

**11.3 Chronic Effects on Humans:** Not available.

**11.4 Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

**11.5 Special Remarks on Toxicity to Animals:** Not available.

**11.6 Special Remarks on Chronic Effects on Humans:** Not available.

**11.7 Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: May cause skin irritation. May affect behavior and respiratory if absorbed through skin (as indicated by subcutaneous LD50 data in RTECS. However, absorption is not likely. Eyes: Dust may cause mechanical eye irritation. Inhalation: Dust may cause respiratory tract irritation. Ingestion: Low hazard for usual industrial handling. Although unlikely, it may cause digestive tract disturbances.

### SECTION 12: Ecological information

**12.1 Ecotoxicity:** Not available.

**12.2 BOD and COD:** Not available.

**12.3 Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.



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**12.4 Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**12.5 Special Remarks on the Products of Biodegradation:** Not available.

### **SECTION 13: Disposal information**

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

### **SECTION 14: Transport information**

**14.1 DOT Classification:** Not a DOT controlled material (United States).

**14.2 Identification:** Not applicable.

**14.3 Special Provisions for Transport:** Not applicable.

**14.4 IMO: Not regulated.**

### **SECTION 15: Regulatory information**

**15.1 Federal and State Regulations:** TSCA 8(b) inventory: Calcium pantothenate

**15.2 Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

#### **15.3 Other Classifications:**

**15.3.1 WHMIS (Canada):** Not controlled under WHMIS (Canada).

**15.3.2 DSCL (EEC):** R36- Irritating to eyes. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

#### **15.3.3 HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E

#### **15.3.4 National Fire Protection Association (U.S.A.):**

**Health:** 1



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**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**15.3.5 Protective Equipment:** Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

### SECTION 16: Other information

**16.1 References:** Not available.

**16.2 Other Special Considerations:** Not available.

**Created:** 09/08/2016

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