

# MATERIAL SAFETY DATA SHEET

## Vitamin D3 Powder

### 1. Product Identification

Catalogue No: **VD<sub>3</sub>P100**

Product name: **Vitamin D3 Powder 100,000IU/g, EP/USP**

#### Manufacturer/supplier identification

Company: Zhejiang Garden Biochemical High-tech Stock Co., Ltd.

Address: Huayuan Industrial Zone, Dongyang 322121, Zhejiang Province, China

Telephone : +86-571-86571191,92,93 Telefax : +86-571-86571190

### 2. Composition/Information on Ingredients

Chemical characteristics: Vitamin D<sub>3</sub> (Cholecalciferol) preparation with an activity of min 100,000 IU/g protected by gelatin and carbohydrates.

Hazardous components: Cholecalciferol 0.25%-0.275%  
T+, R26, R24/25, R48/25

Synonyms: Cholecalciferol, Colecalciferol, Vitamin D<sub>3</sub>

Empirical formula: C<sub>27</sub>H<sub>44</sub>O

Molecular mass: 384.65 g/mol

Non-hazardous ingredients: 99.75%-99.725%

CAS-No.: Not applicable (Mixture)

EINECS-No.: Not applicable (Mixture)

HS Code: 29362900

### 3. Hazards Identification

Hazardous components: Vitamin D3 (Cholecalciferol)

CAS-No.: 67-97-0

EINECS-No.: 200-673-2

Physico-chemical properties: Dust may form explosive mixture in air.

Properties affecting health: Toxic by inhalation.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Environmental properties: No data available.

### 4. First Aid Measures

Eye contact: Rinse thoroughly with water. If discomfort persists obtain medical attention.

Inhalation: Move to fresh air. Remove from exposure.

Skin contact: Wash off thoroughly with soap and water.

Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention.

### 5. Fire-fighting Measures

Special risks: Combustible. Risk of a dust explosion.

Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxide.

## 6. Accidental Release Measures

Wear appropriate protective clothing. Avoid generation of dusts. Do not allow to enter sewerage system.

Carefully take up dry. Forward for disposal. Clean up affected area.

## 7. Handling and Storage

Handling: Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

Storage: Store in a cool place (below 25°C).

Keep dry and tightly closed and protected from direct sunlight and moisture.

## 8. Exposure Controls/Personal Protection

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

Ventilation: Extraction hood required when dusts are generated.

Respirator: Dust respirator required when dusts are generated.

Gloves: Rubber or plastic

Eye Protection: Goggles or face-shield

Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

Do not eat, drink or smoke, when handling the material. Ensure adequate ventilation, especially in confined areas. Remove and wash contaminated clothing before re-use.

## 9. Physical and Chemical Properties

Identification: Powder

Color: White or yellowish-white

Odor: Odorless

Melting temperature Not available

Boiling temperature Not available

Density(g/ml) Not available

Solubility in water Not dispersible

## 10 Toxicological Information

Acute toxicity

LD50/oral/rat= 42mg/kg (Cholecalciferol)

Chronic toxicity

Carcinogenic effects No data available

Mutagenic effects No data available

Toxic effects for reproduction No data available

Specific effects: Harmful: danger of serious damage to healthy by prolonged exposure if swallowed.

Possible clinical signs:

The most common clinical signs associated with cholecalciferol intoxication depend on the body

system that is affected. Clinical signs appear within 12- 36 hours after ingestion and include anorexia, depression, abdominal pain, vomiting, dehydration and muscle weakness.

After inhalation of dust: Irritation symptoms in the respiratory tract.

After eye contact: Irritation.

After the uptake of large quantities: diarrhoea, headache, lack of appetite.

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

#### 11. **Ecological Information**

Quantitative data on the ecological effect of this product are not available. Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

#### 12. **Disposal Considerations**

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

#### 13. **Transport Information**

UN-No.: Not subject to transport regulations.

IMO: Packaging group: N/A

Air transport(IATA): N/A

Land transport(ADR/RID): N/A

Sea transport (IMDG): N/A

#### 14. **Regulatory Information**

N/A

#### 15. **Other Information**

Date of issued: May 18, 2001

Date of last revised: Oct. 31, 2009

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