

# Calcium Peroxide

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Identification of the substance or mixture

Product name : Calcium Peroxide, 75% Min.  
Chemical Name : Calcium peroxide  
Synonyms : Calcium dioxide, Calcium bioxide  
Molecular formula : CaO<sub>2</sub>  
Molecular Weight : 72,1 g/mol  
CAS Number: : 1305-79-9

### 1.2 Use of substance/Mixture

Soil and groundwater remediation  
Agriculture/Aquatic Industry  
Baker industry

### 1.3 Supplier's details:

Shaoxing Biotech Chemical Co LTd  
Zaoliang Rd. Fenghui Town, Shangyu, Shaoxing, China 312300  
Tel: +86 575 82122059

### 1.4 Emergency Phone Number

Emergency Call: +86 575 82122059

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Classification:

Physical / Chemical Hazards:

**Annex I of Directive 67/548/EEC (Self classification):**

O: R8

**EU CLP 2008:**

Oxidizing solid 2

Health Hazards:

**Annex I of Directive 67/548/EEC (Self classification):**

Xi: R41

Xn: R22

**EU CLP 2008:**

Acute oral toxicity 4

Eye irritation/serious eye damage. 1

Environmental Hazards :

**Annex I of Directive 67/548/EEC (Self classification):**

Not classified

### 2.2 Label elements

Signal word : Danger



**Hazard statement:**

May intensify fire; oxidizer.  
Harmful if swallowed.  
Causes severe eye damage.

**Additional precautionary statements:**

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Keep/Store away from clothing/flammable/combustible materials.  
Wear protective gloves/protective clothing/eye protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of fire: Use water for extinction.

**2.3 Other hazards**

Not available.

**3. Composition/Information on Ingredients**

Ingredients	Chemical Formula	CAS No.	Percentage
Calcium Peroxide	CaO <sub>2</sub>	1305-79-9	Min.75.0
Calcium Hydroxide	Ca(OH) <sub>2</sub>	1305-62-0	Max. 25.0

**4. First-aid Measures**

**4.1 Inhalation**

Move to fresh air.  
If symptoms persist, call a physician.

**4.2 Eye contact**

Call a physician or poison control centre immediately.  
In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).

**4.3 Skin contact**

Remove and wash contaminated clothing before re-use.  
Wash off with soap and water.  
If symptoms persist, call a physician.

**4.4 Ingestion**

Rinse mouth with water.  
Do NOT induce vomiting.  
Oxygen or artificial respiration if needed.  
If symptoms persist, call a physician or Poison Control Centre immediately.

**5. Fire Fighting Measur**

**5.1 Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray

**5.2 Extinguishing media which shall not be used for safety reasons**

None.

### 5.3 Special exposure hazards in a fire

Oxygen released in thermal decomposition may support combustion

### 5.4 Hazardous decomposition products

Oxygen

Hydrogen peroxide

### 5.5 Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

## 6. Accidental Release Measures

### 6.1 Personal precautions

### 6.2 Environmental precautions

Should not be released into the environment.

If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods for cleaning up

Sweep up and shovel into suitable containers for disposal.

Do not mix waste streams during collection.

Avoid dust formation.

Keep in properly labelled containers.

Keep in suitable, closed containers for disposal.

Treat recovered material as described in the section "Disposal considerations".

Never return spills in original containers for re-use.

## 7. Handling and Storage

### 7.1 Handling

Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Keep away from Incompatible products.

Use only clean and dry utensils.

Never return unused material to storage receptacle.

### 7.2 Storage

Keep only in the original container.

Keep in a well-ventilated place.

Keep in a dry place.

Keep in properly labelled containers.

Keep container closed.

Avoid dust formation.

Keep away from Incompatible products.

## 8. Exposure Controls/Personal Protection

### Engineering Controls

General room ventilation is required. Local exhaust ventilation, process enclosures or other engineers controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

### Respiratory Protection

For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres

or when exposures exceed limit values, wear a NIOSH approved respirator.

#### **Eye/Face Protection**

Wear chemical safety goggles and a full face shield while handling this product.

#### **Skin Protection**

Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.

Protective gloves: Chemical-resistant (Recommended materials: PVC, neoprene or rubber)

#### **Other Protective Equipment**

Eye-wash station

Safety shower

Impervious clothing

Rubber boots

#### **General Hygiene Considerations**

Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

### **9. Physical and Chemical Properties**

Appearance: White or yellowish powder

Odor: None

Bulk Density: 500~650 g/L

Solubility in water: Insoluble

PH, 3% Solution: Approx.12

Decomposition Temperature: Self-accelerating decomposition with oxygen release starting from 280° C

### **10. Stability and Reactivity**

#### **Stability**

☞ Stable under normal conditions

#### **Conditions to Avoid**

Water

Acids

Bases

Salts of heavy metals

Reducing agents

Organic materials

Flammable substances

#### **Hazardous Decomposition Products**

Oxygen which supports combustion

### **11. Toxicological Information**

LD50 Oral: Min.2000 mg/kg, rat

LD50 Dermal: Min. 2000 mg/kg, rabbit

LD50 Inhalation: Min. 4580 mg/kg, rat

### **12. Ecological Information**

#### **Ecotoxicological Information**

Hazards for the environment is limited due to the product properties of no bioaccumulation, weak solubility

and precipitation in aquatic environment.

#### Chemical Fate Information

As indicated by chemical properties oxygen is released into the environment.

### 13. Disposal Considerations

#### Waste Treatment

Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

#### Package Treatment

The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

### 14. Transport Information

UN Number: UN1457

Proper Shipping Name: Calcium Peroxide

Hazard Class: 5.1

Packing Group: II

Marine Pollutant : None

Special precautions for user: not available



### 15. Regulatory Information

SARA Section..... Yes

SARA (313) Chemicals..... No

EPA TSCA Inventory..... Appears

Canadian WHMIS Classification..... C, D2B

Canadian DSL..... Appears

EINECS Inventory..... Appears

### 16. Other Information

#### Disclaimer

The data in this GHS compliant SDS( Safety Data Sheet) is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which Shaoxing Biotech Chemical Co., Ltd. Assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

Updated as : Mar 15, 2014