



# Sodium Carbonate Peroxyhydrate

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Identification of the substance or mixture

Product name : Sodium Carbonate Peroxyhydrate, Sodium Percarbonate  
Chemical Name : Sodium Carbonate Peroxyhydrate, Sodium Percarbonate  
Synonyms : Disodium carbonate, compound with hydrogen peroxide (2:3)  
Carbonic acid disodium salt, compd. with hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) (2:3)  
Molecular formula : 2Na<sub>2</sub> CO<sub>3</sub>. 3H<sub>2</sub>O<sub>2</sub>  
Molecular Weight : 314 g/mol  
CAS Number: 15630-89-4  
EINECS Number: 239-707-6

### 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
Sodium Percarbonate	2Na <sub>2</sub> CO <sub>3</sub> . 3H <sub>2</sub> O <sub>2</sub>	15630-89-4	Min.85.0
Sodium Carbonate	Na <sub>2</sub> CO <sub>3</sub>	497-19-8	18.0 approx.

**4. First-aid Measures**

Skin contact : Remove contaminated clothing, shoes, etc. immediately.  
Wash the affected skin with soap or mild detergent and large quantities of running water until no evidence of chemical remains.  
Get medical attention in case of persistent pain or redness.

Eye contact : Remove contact lenses.  
Flush eyes immediately with large quantities of running water, while Keeping eyelids wide open. (at least for 15~20 minutes)  
Get medical attention immediately

Ingestion : Get medical attention immediately.  
If the subject is completely conscious, give 2~4 glasses of water to dilute the chemical. Do not induce vomiting. If the subject is unconscious, loosen tight clothing and lay the victim on his/her left side. Give nothing by mouth and do not induce vomiting.

Inhalation : Indication of immediate medical attention and notes for physician  
Remove the subject from exposure immediately and perform artificial respiration, if needed. Get medical attention in case of respiratory symptoms. Move victim to fresh air.  
Call emergency medical service.  
Give artificial respiration if victim is not breathing.  
Administer oxygen if breathing is difficult.  
Remove and isolate contaminated clothing and shoes.



Contaminated clothing may be a fire risk when dry.

Keep victim warm and quiet.

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## 5. Fire Fighting Measure

### Suitable (and unsuitable) extinguishing media

Suitable: Flood with water for extinguishing agent. CO<sub>2</sub> may provide limited control.

Unsuitable extinguishing media: Do not use dry chemicals or foams.

### Specific hazards arising from the chemical

Thermal decomposition products: Fire may produce irritating, corrosive and/or toxic gases.

Fires and an explosive risk:

Oxidizing substance which can be decomposed by water, direct sources of heat, catalysts, etc

Decomposition releases oxygen and heat which can support combustion and cause pressure

bursts in confined spaces or container.

Decomposition in the presence of organic materials can be highly exothermic and may cause combustion.

These substances will accelerate burning when involved in a fire.

Some will react explosively with hydrocarbons (fuels).

### Special protective equipment and precautions for fire-fighters

During a fire, be careful irritating and highly toxic gases generated by thermal decomposition or combustion. Use personal protective equipment.

In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Intervention only by capable personnel who are trained and aware of the hazards of the product.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Stop leak if you can do it without risk.

Large spill: Consider initial downwind evacuation for at least 100meters (330 feet).

### Environmental precautions and protective procedures:

Ventilate for proper method.

Make an embankment for further processing.

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

### The methods of purification and removal

Collect the product with suitable means, shovel or sweep, avoiding dust formation.

All receiving equipment should be clean, dry, vented, labelled and made of material is compatible with the product.



Do not return spilled or contaminated material to inventory.

Clean the area with large quantities of water.

Small spill : With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Large spill: Dike far ahead of liquid spill for later disposal. Following product recovery, flush area with water.

## 7. Handling and Storage

### Precautions for safe handling

Clean and dry process piping and equipment before using the product.

Never return spillage to its original package or for reuse. Keep away from incompatible products.

Do not use vacuum cleaner for cleaning up.

Avoid contact and avoid breathing the material.

Emergency showers and eye wash should be readily accessible.

Remove all sources of ignition.

### Storage

In a cool and dry area (protect from direct sunlight).

Store in vented containers.

Keep container tightly closed.

## 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 granular solid



## MATERIAL SAFETY DATA SHEET 安全技术说明书

Odor:	None
Bulk Density:	0.9~1.2 g/cm <sup>3</sup>
Solubility:	Min 14.5g/100g water@20°C
PH, 3% Solution:	Approx. 10.5
Decomposition Temperature:	Self-accelerating decomposition with oxygen release starting from 150 °C

### 10. Stability and Reactivity

#### Stability

Stable under normal conditions

#### Possibility of hazardous reactions

In water rapidly dissociates into hydrogen peroxide and sodium carbonate.

#### Conditions to Avoid

Water

Acids

Bases

Salts of heavy metals

Reducing agents

Organic materials

Flammable substances

#### Hazardous Decomposition Products

Oxygen. Contamination with many substances will cause decomposition. The rate of decomposition increases with increasing temperature and may be very vigorous with rapid generation of large volume of oxygen and steam.

### 11. Toxicological Information

LD50 Oral: 2400 mg/kg, rat

LD50 Dermal: Min. 2000 mg/kg, rabbit

LD50 Inhalation: Min4580 mg/kg, rat

### 12. Ecological Information

#### Ecotoxicological Information

No data available

#### Chemical Fate Information

No data available

### 13. Disposal Considerations

#### Waste Treatment

Dispose of in an approved waste facility operated by an authorized contractor in compliance with relevant regulations. The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

### 14. Transport Information

UN Number: UN3378

Proper Shipping Name: Sodium Carbonate Peroxyhydrate

Hazard Class: 5.1

Labels: 5.1 (Oxidizer)

Packing Group: III





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.

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