



## Sodium Percarbonate

### I. Description of SPC

**Sodium Percarbonate** (Synonyms: Sodium Carbonate Peroxyhydrate, sodium carbonate peroxide, PCS) is a free-flowing powder with a common name of solid hydrogen peroxide, it is an addition compound of sodium carbonate and hydrogen peroxide. Percarbonate has an active available oxygen content which is equivalent to 27.5% H<sub>2</sub>O<sub>2</sub>. It breaks down to oxygen, water and sodium carbonate upon decomposition. It's an environmentally safe bleaching agent. Sodium Percarbonate can be mixed with one of the compounds containing polyvinyl alcohol (PVA) and copper, ferrum, cobalt, manganese, and so on. In emergence, adding some water to this mixture, oxygen will be released in a ready and large quantity way.

### II. Application of SPC

Sodium Percarbonate offers many of the same functional benefits as liquid hydrogen peroxide. It dissolves into water rapidly to release oxygen and provides powerful cleaning, bleaching, stain removal and deodorizing capabilities. As Sodium Percarbonate is a kind of new high effective bleaching raw material for detergent, with advantage of no odor, no toxin, and no pollution. Due to the bleaching capacity of active oxygen released into the water, Sodium Percarbonate shows well performance. Sodium Percarbonate also is one disinfecting agent, it can kill coliform, staphylokinase, hepatitis bacterium and so on, therefore it is used as defecting agent in Hospital, Public Place, and to disinfected Medical Instrument, False Teeth, Fruit tools and Fruite and so on. Along with the development of aquiculture, usages of Sodium Percarbonate in such domains are increasing. Many detergent manufacturers home and abroad have being adopted Sodium Percarbonate as bleaching raw material instead of Sodium perborate or others.

### III. Quality Terms

<b>Molecular Formula</b>	2Na <sub>2</sub> CO <sub>3</sub> .3H <sub>2</sub> O <sub>2</sub>	
<b>Molecular Weight</b>	314.02	
<b>CAS No.</b>	15630-89-4	
<b>Dangerous Goods Class</b>	5.1	
<b>UN No.</b>	UN 3378	
<b>Item</b>	Uncoated	Coated
<b>Appearance</b>	Free flowing white granule	Free flowing white granule





<b>Active Oxygen (%)</b>	≥13.5	≥13.0
<b>Bulk density, g/l</b>	700-1100	700-1100
<b>Moisture (%)</b>	≤ 2.0	≤ 2.0
<b>Iron(Fe) (%)</b>	≤0.002	≤0.002
<b>PH(3%water solution,20℃)</b>	10.0-11.0	10.0-11.0
<b>Packing</b>	In 25kg or 1000kg woven bag with inner film or upon customer's demand.	

#### IV. Storage

Storage in dry clean, well- ventilated condition, the warehouse temperature under 40℃ (104°F) . Keep away from moisture and raining. Protect from direct sunlight. Keep away from heat sources Keep away from reactive products (see section 10).Store in vented containers.

#### V. Instruction of use

Clean and dry process piping and equipment before using this product. Never return unused product to original storage container. Keep away from incompatible products. Containers and equipment used to handle the product should be used exclusively for that product. Avoid any contact with water or humidity. For more information, consult the supplier.

#### VI. First-aid Measures

##### ♀ **General Recommendations:**

Do not dye soiled clothing near an open flame or incandescent heat source.

##### ♀ **Inhalation:**

Remove the subject from dusty environment. Consult with a physician in case of respiratory symptoms.

##### ♀ **Eye contact:**

Flush eyes with running water for 15 minutes, while keeping the eyelids wide open.Consult with an ophthalmologist in all cases.

##### ♀ **Skin contact:**

Remove contaminated shoes, socks and clothing; wash the affected skin with running water.Clean clothing. Consult a physician in case of persistent pain or redness.

##### ♀ **Ingestion:**

Consult with a physician in all cases If the subject is completely conscious, rinse mouth and administer fresh water. Don't induce vomiting. If the subject is unconscious, loosen collar and tight clothing, lay the victim on his/her left side, give nothing by mouth. Keep





warm with blanket. Don't induce vomiting.

## VII. Shipping Information

- ♀ D.O.T. Proper Shipping Name: Oxidizing solid, n.o.s. (sodium carbonate peroxyhydrate)
- ♀ UN Number: 1479
- ♀ Hazard Class: 5.1
- ♀ Label(s): 5.1 (Oxidizer)
- ♀ Packing Group: II

## ■ Advantage of our company

1. We produce it strictly according to ISO9001:2000 and ISO14001 requirements.
2. At present our production capacity is a little small 1500mt/month, by later of 2006, our production capacity can reach 100000mt/year.
3. We have absolutely advantages of the raw material supplying as below:
  - A. Sodium Carbonate**
    - a. In China, the two main Sodium Carbonate produce area is Tianjin and Qingdao where is near sea. Our Company is very near to there two port.
    - b. Some other suppliers, Like Jinke, Shangyu, Wuxi Wanli, Wanxi Wanma and Jiangxi Yongtai which are very far from these two port. So they got this material with higher price.
    - c. We could send the final product to port and delivery it on come back way.
  - B. Hydrogen Peroxide**
    - a. There have four stable suppliers of it around us:
      - Jinan City (250km to our plant): 100,000mt/year;
      - Shijiazhuang (280km to our plant): 200,000mt/year,
      - Luoyang (300km to our plant): 100,000mt/year.
      - Puyang (45km to our plant): 50,000mt/year (Including our self plant: 20,000mt/year).
    - b. But other suppliers, they will purchase it from Shanghai with higher cost.
4. We have cooperate with three chemical academes, so we could get technical supporting from them very easy and improve our goods quality faster.
5. Long time chemicals export experience, so we could supply very good service and prompt delivery.

■ Please read the **MSDS** for this chemical before using!

