

MATERIAL SAFETY DATA SHEET 物质安全数据单

Sodium Percarbonate

1. Chemical Product and Supplier Identification

Product Name

☞ Sodium Percarbonate

Synonyms

☞ Sodium Carbonate Peroxyhydrate, PCS, Sodium Carbonate Peroxide

Manufacturer

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MSDS Number

☞ JHPCS-01-01

Effective Date

☞ January 1, 2003

2. Composition/Information on Ingredients

| Ingredients | Chemical Formula | CAS No. | Percentage |
|---------------------|--|------------|--------------|
| Sodium Percarbonate | 2Na ₂ ·3H ₂ O ₂ | 15630-89-4 | Min.88.0 |
| Sodium Carbonate | Na ₂ CO ₃ | 497-19-8 | 12.0 approx. |

3. Hazards Identification

Emergency Overview

- ☞ Oxidizing agent, contact with other material may cause fire
- ☞ May be harmful or fatal if swallowed
- ☞ May cause severe eye and respiratory tract irritation or burns
- ☞ May cause skin irritation
- ☞ Does not present any significant hazard for the environment

Potential Health Effects

- ☞ General..... Irritating to mucous membrane, eyes, and skin.
- ☞ Inhalation..... Irritating to the respiratory tract. Coughing, sneezing, difficulty breathing and sore throat.
- ☞ Eye contact..... May cause irritation to the eyes, including pain, redness and reversible damage.
- ☞ Skin contact..... Slight irritation.
- ☞ Ingestion..... Vomiting and diarrhea.

4. First-aid Measures

- ☞ Inhalation..... Remove affected person to fresh air. Seek medical attention if effects persist.
- ☞ Eye contact..... Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.

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- ☞ Skin contact..... Wash affected skin with soap and mild detergent and large amounts of water.
- ☞ Ingestion..... If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

5. Fire Fighting Measure

Flash Point

- ☞ Not applicable

Flammability

- ☞ Not applicable

Ignition Temperature

- ☞ Not applicable

Danger of Explosion

- ☞ Non-explosive

Extinguishing Media

- ☞ Water

Fire Hazards

- ☞ Oxidizer. Storage vessels involved in a fire may vent gas or rupture due to internal pressure. Damp material may decompose exothermically and ignite combustibles. Oxygen release due to exothermic decomposition may support combustion. May ignite other combustible materials. Avoid contact with incompatible materials such as heavy metals, reducing agents, acids, bases, combustibles (wood, papers, cloths etc.). Thermal decomposition releases oxygen and heat. Pressure bursts may occur due to gas evolution. Pressurization if confined when heated or decomposing. Containers may burst violently.

Fire-Fighting Measures

- ☞ Evacuate all non-essential personnel
- ☞ Wear protective clothing and self-contained breathing apparatus
- ☞ Remain upwind of fire to avoid hazardous vapors and decomposition products
- ☞ Use water spray to cool fire-exposed containers

6. Accidental Release Measures

Spill Clean-up Procedures

- ☞ Oxidizer. Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 8. Never exceed any occupational exposure limit.
- ☞ Shovel or sweep material into plastic bags or vented containers for disposal. Do not return spilled or contaminated material to inventory.
- ☞ Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.
- ☞ Do not touch or walk through spilled material. Keep away from combustibles (wood, paper, oils, etc.). Do not return any product to container because of the risk of contamination.

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7. Handling and Storage

Storage

- ☞ Oxidizer. Store in a cool, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat. Store at temperatures less than 40°C.
- ☞ Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
- ☞ Protect from moisture. Do not store near combustible materials. Keep containers well sealed, seal only with original vent cap. Ensure pressure relief and adequate ventilation.
- ☞ Store separately from organics and reducing materials. Avoid contamination which may lead to decomposition.

Handling

- ☞ Avoid contact with eyes, skin, and clothing. Use with adequate ventilation.
- ☞ Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- ☞ Prevent contact with combustible or organic materials.
- ☞ Label containers and keep them tightly closed when not in use.
- ☞ Wash thoroughly after handling.

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

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soon as practical, especially before eating or smoking.

9. Physical and Chemical Properties

| | |
|----------------------------|---|
| Appearance: | White granular solid |
| Odor: | None |
| Bulk Density: | 0.9~1.2 g/cm ³ |
| Solubility: | Min 14.5g/100g water@20°C |
| PH, 3% Solution: | Approx. 10.5 |
| Decomposition Temperature: | Self-accelerating decomposition with oxygen release starting from 50 °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. 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 local regulations.

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Package Treatment

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

14. Transport Information

- ☞ Proper Shipping Name: Oxidizing solid, n.o.s., (sodium carbonate peroxyhydrate)
- ☞ UN Number: UN3378
- ☞ Hazard Class: 5.1
- ☞ Labels: 5.1 (Oxidizer)
- ☞ Packing Group: III

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 Material 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 Shangyu Jiehua Chemical Co., Ltd. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.