



# MATERIAL SAFETY DATA SHEET

[www.czqdchem.com](http://www.czqdchem.com)

Email: Lisa@czqidi.com

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MSDS NUMBER: QD-04

CURRENT ISSUE DATE: Oct, 2019

## Sodium Persulfate

### 1. Product and Company Identification

**Synonyms:** Sodium Peroxydisulphate; Peroxydisulfuric Acid, Disodium Salt

**CAS No.:** 7775-27-1

**Molecular Weight:** 238.03

**Chemical Formula:** Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>

**SUPPLIER:** Chang Zhou Qi Di Chemical Co., LTD

128-1-16# Huayuan Street,

Hutang Town, Wujin District,

Changzhou, P.R. China

**TEL:** 86-519-83382137

**FAX:** 86-519-86316850

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
-----	-----	-----	-----
Peroxydisulfuric Acid Disodium Salt	7775-27-1	90 - 100%	Yes

### 3. Hazards Identification

#### Emergency Overview:

Danger! Strong oxidizer. Contact with other material may cause fire. Harmful



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if swallowed or inhaled. May cause burns to skin and eyes. Causes respiratory tract irritation. May cause allergic skin or respiratory reaction.

**Potential Health Effects:** Airborne persulfate dust may be irritating to eyes, nose, lungs, throat and skin upon contact. Exposure to high levels of persulfate dust may cause difficulty in breathing in sensitive persons.

### 4. First Aid Measures

#### **Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

#### **Ingestion:**

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### **Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.



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### 5. Fire Fighting Measures

#### **Fire:**

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Heating or contact with water releases oxygen which may intensify combustion in an existing fire.

#### **Explosion:**

An explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents. Strong oxidants may explode when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapor explosions.

#### **Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire. Do not use water.

#### **Special Information:**

In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Sealed containers may rupture when heated.

### 6. Accidental Release Measures



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Remove all sources of ignition. Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not contact with water.

### 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

### 8. Exposure Controls/Personal Protection

#### **Airborne Exposure Limits:**

- ACGIH Threshold Limit Value (TLV):

0.1 mg/m<sup>3</sup> (TWA), Persulfates, Sodium

#### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust



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ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### **Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece particulate respirator (NIOSH type N100 filters) may be worn for up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties



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**Odor:** None

**Appearance:** White crystals powder.

**PH:** (1% solution)@25°C=typically 5.0-7.0

**Percent volatile:** Not applicable

**Vapor Pressure (mm Hg):** Not applicable

**Vapor Density (Air=1):** Not applicable

**Boiling Point:** Not applicable

**Melting Point:** Decomposes @180°C (356°F).

**Solubility in water:** % by wt. @ 25°C (77°F): 73

**Evaporation Rate (BuAc=1):** No applicable

**Density:** Not available

**Specific Gravity (H2O=1):** 2.60

**Oxidizing Properties:** Oxidizer

## 10. Stability and Reactivity

**Stability:**



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Unstable. Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperatures. Stability decreases in the presence of moisture. Metals other than stainless steel are apt to cause decomposition of persulfate solutions.

### Hazardous Decomposition Products:

Oxides of sulfur and the contained metal. Oxygen is released.

### Hazardous Polymerization:

Will not occur.

### Incompatibilities:

Reducing agents, organic material, sodium peroxide, water and powdered metals especially aluminum.

### Conditions to Avoid:

Moisture, heat, flame, ignition sources, shock, friction, incompatibles.

## 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	No	No	None



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### 12. Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

### 13. Disposal Consideration

Disposal Method: Dispose as a hazardous waste in accordance with regulatory agencies.

### 14. Transport Information

**Proper Shipping Name:** Sodium Persulfate

**Hazard Class:** 5.1

**UN/NA:** UN1505

**Packing Group:** III

### 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----





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--Canada--

Ingredient	Korea	DSL	NDSL	Phil.
-----	-----	-----	-----	-----
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302-

-----SARA 313-----

Ingredient	RQ	TPQ	List	Chemical Catg.
-----	-----	-----	-----	-----
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA-

-TSCA-

Ingredient	CERCLA	261.33	8(d)
-----	-----	-----	-----
Peroxydisulfuric Acid Disodium Salt (7775-27-1)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No

Reactivity: No (Pure / Solid)

### 16. Other Information

**NFPA Ratings:** Health: 3 Flammability: 0 Reactivity: 1 Other: Oxidizer

**Label Hazard Warning:**

**DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE**



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FIRE. HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE BURNS TO SKIN AND EYES. CAUSES RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION.

### Label Precautions:

Keep from contact with clothing and other combustible materials.

Do not get in eyes, on skin, or on clothing.

Remove and wash contaminated clothing promptly.

Do not breathe dust.

Store in a tightly closed container.

Use only with adequate ventilation.

Wash thoroughly after handling.

### Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

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THIS INFORMATION IS BASED ON OUR KNOWLEDGE. HOWEVER, THIS SHALL NOT CONSTITUTE A GUARANTEE FOR ANY SPECIFIC PRODUCT FEATURES AND SHALL NOT ESTABLISH A LEGALLY VALID CONTRACTUAL RELATIONSHIP.

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CHANG ZHOU QI DI CHEMICAL CO., LTD

常州市启迪化工有限公司

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