

Zinc Peroxide

1. Chemical Product and Supplier Identification

Product Name

Zinc Peroxide

Synonyms

Zinc Dioxide, Zinc Bioxide

Manufacturer

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MSDS Number

♥ JHZP-01-01

Effective Date

⋖ January 1, 2003

2. Composition/Information on Ingredients

Ingredients	Chemical Formula	CAS No.	Percentage
Zinc Peroxide	ZnO2	1314-22-3	Min.55.0
Zinc Hydroxide	Zn (OH)2	20427-58-1	25~50

3. Hazards Identification

Emergency Overview

Oxidizing agent, contact with other material may cause fire. Under fire conditions this material may decompose and release oxygen that intensifies fire.

Potential Health Effects

æ,	General	Irritating to mucous membrane and eyes.
æ,	Inhalation	Irritating to the respiratory tract.
ત્	Eye contact	May cause irritation to the eyes; Risks of serious or permanent
		eye lesions.
æ,	Skin contact	May cause skin irritation.
æ,	Ingestion	Irritation of the mouth and throat with nausea and vomiting.

4. First-aid Measures

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



Skin contact...... Wash affected skin with soap and mild detergent and large amounts of water.

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.
- Do not discharge into the environment (sewers, river, soils, etc.).



7. Handling and Storage

Storage

- Oxidizer. Store in a dry, well ventilated area away from all source of ignition and out of direct sunlight. Store in a dry location away from heat.
- Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Never return unused product to storage container.
- 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.

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: 600~800 g/L

Solubility: Insoluble in water, soluble in acids

PH, 3% Solution: Approx.7

Decomposition Temperature: Self-accelerating decomposition with oxygen release starting

from 150 °C

10. Stability and Reactivity

Stability

Stable under normal conditions

Conditions to Avoid

- **≪** Water
- Acids
- Salts of heavy metals
- Reducing agents
- Organic materials
- Flammable substances

Hazardous Decomposition Products

- Oxygen which supports combustion
- Hydrogen peroxide

11. Toxicological Information

- No specific data
- Irritant effect for the skin, the eyes and respiratory tract

12. Ecological Information

Ecotoxicological Information

- A harmful effect on aquatic organisms can not be excluded in the event of improper handling or disposal.
- High bioaccumulation potential.

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

Proper Shipping Name: Zinc Peroxide

UN Number: UN1516
Hazard Class: 5.1
Labels: 5.1 (Oxidizer)
Packing Group: II

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.