

ZHANJIANG NEW ORIENT MINERALS CO., LTD.

MATERIAL SAFETY DATA SHEET

Product Name: Barium sulfate Revision Date: 14-Nov-2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Barium Sulfate Precipitated

Product Use: It can be used as filler in the manufacture of paint and coating, linoleum,

oilcloth, paper and textile manufacturing, rubber, and plastics.

Supplied by:

Zhanjiang New Orient Minerals Co., Ltd Inside of Zhanjiang Seaport District No.4, 1# Youyi Road, Xiashan, Zhanjiang,

Guangdong, China

Tel: (86)759-2254830 Fax:(86)759-2253532

2. COMPOSITION/INFORMATION ON INGREDIENTS

| SUBSTANCE | CAS Number | PERCENT | ACGIH TLV-TWA | OSHA PEL-TWA |
|----------------|------------|--------------|------------------|-----------------|
| Barium sulfate | 7727-43-7 | 97.5 - 99.7% | 10 mg/m₃ | 15 mg/m₃ |

3. HAZARDS IDENTIFICATION

Physical State: Powder. Odor: Odorless Color: White

Potential Health Effects:

Acute Effects:

Eye Contact: May cause mechanical irritation **Skin Contact:** May cause mechanical irritation. **Inhalation:** May cause mechanical irritation.

Ingestion: May cause gastric distress, nausea and vomiting if ingested. **Carcinogenicity & Chronic Effects:** See Section 11 - Toxicological Information.

4. FIRST AID MEASURES

Eye Contact: Promptly wash eyes with lots of water while lifting eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Skin Contact: Wash skin thoroughly with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if any discomfort continues.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Dilute with 2 - 3 glasses of water or milk, if conscious. Never give anything by mouth to an unconscious person. If signs of irritation or toxicity occur seek medical attention. **General notes:** Persons seeking medical attention should carry a copy of this MSDS with

:hem.

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5. FIRE FIGHTING MEASURES

Flammable Properties
Flash Point: F (C): NA

Flammable Limits in Air - Lower (%): ND Flammable Limits in Air - Upper (%): ND Autoignition Temperature: F (C): ND

Flammability Class: NA

Other Flammable Properties: ND

Extinguishing Media: This material is not combustible. Use extinguishing media

appropriate for surrounding fire. **Protection Of Fire-Fighters:**

Special Fire-Fighting Procedures: Do not enter fire area without proper personal protective equipment, including NIOSH/MSHA approved self-contained breathing apparatus. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and waterways.

Hazardous Combustion Products: Not determined.

NFPA Ratings: Health 1, Flammability 0, Reactivity 0 **HMIS Ratings:** Flammability 0, Reactivity 0, Health 1*

HMIS Key: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal Hazard. *Chronic effects - See Section 11. See Section 8 for Personal Protective Equipment

recommendations.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment identified in Section 8. **Spill Procedures:** Evacuate surrounding area, if necessary. Contain spilled material. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.

Environmental Precautions: Do not allow to enter sewer or surface and subsurface waters. Waste must be disposed of in accordance with federal, state and local laws.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment. Avoid contact with skin and eyes. Avoid generating or breathing dust. Use only in a well ventilated area. Wash thoroughly after handling.

Storage: Store in dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to ensure air contamination and keep workers exposure below the applicable limits.

Personal Protection Equipment:

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazards present and the risk of exposure to those hazards. The PPE recommendations below are based on our assessment of the chemical hazards associated with this product. The risk of exposure and need for respiratory protection will vary from workplace to workplace and should be assessed by the user.

Eye/Face Protection: Dust resistant safety goggles.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Chemical resistant gloves recommended for prolonged or repeated contact. Use protective gloves made of: Neoprene. Nitrile.

Respiratory Protection: Wear a NIOSH certified respirator if dust over TLV.

General Hygiene Considerations: Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded, if contaminated with product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: White
Odor: Odorless
pH: Not available

Vapor Pressure: Not applicable.

Viscosity: Not applicable. **Boiling Point:** Not applicable.

Freezing/Melting Point: 2876 deg F (1,580.00C)

Autoignition Temperature: Not applicable

Flash Point: Not applicable.

Explosion Limits: Lower/ Upper:: Not available **Decomposition Temperature:** Not available

Solubility in water: Insoluble

Specific Gravity/Density: 4.4 (Water=1)

Molecular Formula: BaSO₄ Molecular Weight: 233.4

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature in closed containers under normal storage

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and handling conditions.

Conditions to Avoid: None anticipated.

Incompatibilities with Other Materials: Not available.

Hazardous Decomposition Products: Oxides of sulfur, barium fume.

Hazardous Polymerization: Will Not Occur

Section 11 - Toxicological Information

Routes of Exposure: Eyes. Dermal (skin) contact. Inhalation.

Target Organs/Medical Conditions Aggravated by Overexposure: Eyes. Skin.

Respiratory System.

Product Toxicological Information:Long term inhalation of particulate can cause irritation, inflammation and/or permanent injury to the lungs. Illnesses such as pneumoconiosis ("baritosis "), pulmonary fibrosis, chronic bronchitis, emphysema and bronchial asthma may develop.

Carcinogenicity: No listed as carcinogen by NTP, IARC, OSHA.

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not applicable

Bio-accumulation Not Determined **Ecotoxicological Information**

Acute Fish Toxicity: TLM96: 7500 ppm (Oncorhynchus mykiss)

Acute Crustaceans Toxicity: Not determined

Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation:

Bury in a landfill site approved for the disposal of chemical and hazardous wastes. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for

transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

EU ADDITIONAL CLASSIFICATION

S: 22-24/25

Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

NOTES: This product is subject to SARA section 313 reporting requirements. This product is

subject to SARA section 313 reporting requirements.

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria

of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes NDSL: No

16. OTHER INFORMATION

Additional Information:

For additional information on the use of this product, contact us at 0086-759-2254730.

Disclaimer Statement:

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