

Shanghai King Chemical Co.,Ltd

Safety Data Sheet

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|------------------------------------|--|
| Shanghai King Chemical CO., LTD | Emergency Telephone No. +86-21-67817854 |
| | Customer Service: +86-21-67817854 |
| Product Name: | TITANIUM DIOXIDE PIGMENT |

2. Product Composition

| | | |
|---|-------------------|-----------------|
| Product Classification: Titanium Dioxide Pigment | | |
| Component(s): | C.A.S. No. | Percent: |
| • Titanium Dioxide | • 13463-67-7 | 88- 96 |
| • Alumina | • 1344-28-1 | 0.1- 4 |
| • Zirconia | • 1314-23-4 | 0.1-4 |

3. Hazard Identification

Warning:

- May cause mechanical eye irritation.
- Nuisance Dust: Long term exposure to airborne concentrations above the recommended exposure limits may cause lung damage.

Protective Measures:

- Avoid contact with the eyes.
- Use in well ventilated areas.
- Do not breathe dust.

4. First Aid Measures

Inhalation:

- Remove person to fresh air. If breathing is difficult, provide oxygen and seek medical attention.

Eye Contact:

- Rinse eyes immediately with water for at least 15 minutes. See a physician.

Skin Contact:

- Wash skin thoroughly with soap and water. See a physician if irritation persists.

Ingestion:

- Provide symptomatic treatment and seek prompt medical attention.

5. Fire Fighting Methods

- **Flash Point:** N.A.
- **Method:** N.A.
- **LEL:** N.A.
- **UEL:** N.A.

Extinguishing Media/Fire Fighting Procedures:

- Use the following extinguishing media when fighting fires involving this material: water fog, foam, dry chemical or carbon dioxide.

Unusual Hazards:

- Normal precautions for dusts should be provided. Avoid high concentrations of dust in air.

6. Accidental Release Measures

Release Response

- Minimize dusting. **CAUTION:** May cause a slippery condition when wet. Sweep/shovel up and transfer into a suitable container for re-use or disposal.

Personal Protective Equipment:

- Wear an air-purifying respirator equipped with filters for protection against dusts and mists. Wear cotton or canvas gloves.

Wear safety glasses

7. Handling And Storage

Handling:

- Avoid high concentrations of dust in air through the use of ventilation or other suitable controls.

Storage:

- This material is not hazardous under normal operating conditions.

8. Exposure Control Information

Occupational Exposure Limits:

| | ACGIH-TLV | OSHA-PEL |
|-------------------------|--|--|
| Titanium Dioxide | 8hr. TWA-10mg/m ³ , total | 8hr. TWA-10mg/m ³ , total |
| Nuisance Dust | 8hr. TWA-5mg/m ³ , respirable | 8hr. TWA-5mg/m ³ , respirable |
| Alumina | Not Established | Not Established |
| Zirconia | Not Established | Not Established |

Engineering Control Measures:

- Use local exhaust ventilation if airborne concentrations exceed recommended exposure limits.

Personal Protection Equipment:

- **Respiratory:**
Use an air-purifying respirator equipped with filters for protection against dusts and mists.
- **Hand:**
Use cotton or canvas gloves.
- **Eye:**
Eye protection worn must be compatible with respiratory protection system employed.

Other Control Measures:

- Use good industrial hygiene practices. Wash hands and face before eating and drinking.

9. Properties

- **Appearance:** White powder
- **Odor:** None
- **pH:** 7-10
- **Boiling Range:** N.A.
- **Melting Range:** > 1000 degrees C
- **Specific Gravity:** 3.7 – 4.2
- **Solubility:** Insoluble
- **Vapor Density:** Not volatile
- **Vapor Pressure:** Not volatile
- **% Volatile:** 0
- **Freezing Point:** N.A.

10. Reactivity Information

Conditions To Avoid:

Avoid contact with metals at high temperatures.

Hazardous Polymerization:

Hazardous polymerization will not occur.

Hazardous Decomposition:

Hazardous decomposition will not occur.

Stability:

This material is stable under normal operating conditions.

11. Health/Toxicity Information

Health Hazards

Effects of Acute Exposure

- **Inhalation:**
Inhalation of dust can cause irritation of the nose, throat, and lungs.
- **Eye Contact:**
Like any foreign body, particles can cause mechanical irritation.
- **Skin Contact:**
This material can cause irritation if not promptly washed from the skin.
- **Skin Absorption:**
This product is not expected to be absorbed through intact skin.
- **Ingestion:**

This material is not expected to produce adverse effects.

- **Effects of Chronic Over Exposure:**
As with any nuisance dust, long-term exposure to concentrations above the recommended exposure limits may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath.
- **Listed as a suspected or known carcinogen on:**
 - **IARC:** No
 - **NTP:** No
 - **OSHA:** No
- **Medical Conditions Aggravated:** Respiratory disorders.
- **Toxicity Information:**
Acute Oral LD50 (Rat): > 7,500 mg/kg (TiO₂).

12. Environmental/Disposal Considerations

Environmental Hazards:

- None known.

13. Disposal Considerations

- Dispose of in accordance with local, state, and federal regulations. Use a licensed waste handler.

14. Transportation

Shipping Name: Titanium Dioxide **R5566, R5568, R244**

Label: N.A.

Hazard Class: Not regulated

Packing Group: N.A.

UN#: N.A.

15. Regulatory Information

Chemical Inventories: In compliance denotes that all components are on the inventory or exempt.

European Inventory: In Compliance

Chinese Inventory: In Compliance

Other Regulatory Information: This product is WHMIS controlled.

16. Other Information

H.I.M.S. Codes

Health: 1

Flammability: 0

Reactivity: 0

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or any process.

Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS