

Material Safety Data Sheet (MSDS)

Product Name: Titanium Dioxide Rutile R6618

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Titanium Dioxide Rutile R6618
- **Chemical Name:** Titanium Dioxide
- **CAS No.:** 13463-67-7
- **Molecular Formula:** TiO_2
- **Recommended Use:** Pigments, paints & coatings, plastics, rubber, inks, paper, construction materials

2. Hazard Identification

- Classified as **non-hazardous** under GHS for normal industrial use
- Dust may cause mild irritation to eyes, skin, or respiratory tract
- No known acute toxicity
- Chronic inhalation of excessive dust may cause lung irritation

3. Composition / Information on Ingredients

- **Titanium Dioxide (Rutile):** $\geq 99\%$
- **CAS No.:** 13463-67-7
- **Impurities:** Trace amounts within permissible limits

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if discomfort persists
- **Skin Contact:** Wash with soap and water
- **Eye Contact:** Rinse cautiously with water for several minutes
- **Ingestion:** Rinse mouth; do not induce vomiting

5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, foam, CO₂, dry chemical
- **Special Hazards:** Product does not burn; packaging material may burn
- **Protective Equipment:** Standard firefighting gear

6. Accidental Release Measures

- Avoid dust formation
- Use vacuum or wet sweeping methods
- Wear protective equipment
- Prevent entry into drains and waterways

7. Handling and Storage

- Handle in well-ventilated areas
- Avoid generating airborne dust

- Store in tightly closed containers
- Keep in a dry, cool place away from moisture

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation
- **Respiratory Protection:** Dust mask if exposure exceeds limits
- **Eye Protection:** Safety goggles
- **Skin Protection:** Protective gloves and clothing

9. Physical and Chemical Properties

- **Appearance:** White to off-white powder
- **Odor:** Odorless
- **pH:** Neutral
- **Melting Point:** ~1843°C
- **Solubility:** Insoluble in water
- **Bulk Density:** Approx. 0.9–1.3 g/cm³

10. Stability and Reactivity

- Stable under normal conditions
- No hazardous polymerization
- Avoid strong acids and bases
- No dangerous decomposition products

11. Toxicological Information

- Low toxicity
- Not acutely toxic
- No evidence of mutagenicity or carcinogenicity in finished product form

- Prolonged inhalation of dust may cause mechanical lung irritation

12. Ecological Information

- Not expected to be harmful to aquatic life
- Insoluble and inert
- Does not bioaccumulate

13. Disposal Considerations

- Dispose according to local and national regulations
- Can be disposed of as non-hazardous industrial waste
- Avoid uncontrolled discharge into the environment

14. Transport Information (Detailed)

- **UN Number:** Not Applicable
- **UN Proper Shipping Name:** Not Regulated
- **Transport Hazard Class:** Not Classified as Dangerous Goods
- **Packing Group:** Not Applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea Transport):** Not regulated
- **IATA (Air Transport):** Not regulated

Special Transport Precautions:

- Protect containers from damage and moisture
- Prevent dust generation during loading/unloading
- Secure packaging to avoid spillage
- Transport in original, sealed bags or containers

Environmental Hazards:

- Not a marine pollutant
 - No special environmental hazard during transport
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15. Regulatory Information

- Complies with REACH and global chemical safety regulations
 - Not listed as a hazardous substance
 - Observe local occupational exposure limits
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16. Other Information

- MSDS prepared based on current available data
- Information is provided in good faith for safety guidance
- User must ensure suitability for their specific application
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.