

Material Safety Data Sheet
PMI SR-2377

Section 1: Product Information

Product Name: Titanium Dioxide
CAS#: 13463-67-7
TSCA: TSCA 8(b) inventory: Titanium Dioxide
CI#: Not Available
Chemical Name: Titanium Dioxide
Chemical Formula: TiO₂

Section 2: Chemical Composition

Composition:

Chemical Name	CAS#	% by Weight
Titanium Dioxide	13463-67-7	≥ 94.0
Al ₂ O ₃ , Zirconia, Organic Treatment		≤ 6.0

Toxicology Data: Titanium Dioxide LD50: Not Available, LC50: Not Available.

Section 3: Hazardous Identification

Potential Acute Health Effects: Slightly Harzards in case of skin contact (irritant)
Potential Chronic Healthe Effect: CARCINOGENIC EFFICTS: A4 (Not classified for human or animal) by ACGIH 3 (Not classified for human), by IARC. Mutagenic Effects: Mutagenic for mammalian somatic cells.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient.
Inhalation: If inhaled, remove the person to fresh air. If not breathing, give artificial respiration.
Serious Inhalation: Not available.
Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Point: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not applicable.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion in presence of static discharge: Not available.

Special Remarks on Fire Hazards: Not combustible.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spills solid in a waste disposal container.

Large Spill: Use a shovel to put the material into waste disposal container.

Section 7: Handling and Storage

Handling: Wear gloves, apron, safety glasses, and respiratory mask.

Storage: Keep the materials at well ventilated warehouse, avoid direct sunlight.

Section 8: Exposure Control/ Personal Protection

Engineering Control: Use process enclosures, local exhaust ventilation.

Personal Protection: Safety glasses, lab coat, dust respirator. Use an approved/ certified respirator.

Personal Protection in Case of a Large Spill: Splash goggles, full suit, dust respirator, boots, and gloves.

Section 9: Physical and Chemical Properties

Appearance: Solid powder

Taste: Tasteless.

Color: White.

Boiling Point: 2750°C (4982°F)

Critical Temperature: Not available.

Vapor Pressure: Not applicable.

Volatility: Not available.

Water/ Oil Dist. Coeff.: Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hydrochloric acid, nitric acid, diluted sulfuric acid, organic solvents.

Odor: Odorless.

Molecular Weight: 79.9g/mole

PH (in water): 7.0 - 9.0

Melting Point: 1855°C (3371°F)

Specific Gravity: 4.26 (Water =1)

Vapor Density: Not available.

Odor Threshold: Not available.

Ionicity (in water): Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Condition of Instability: Incompatible materials.

Incompatibility with various substances: Reactive with acids.

Special Remarks on Reactivity: Reaction of titanium dioxide and lithium occurs around 200°C with a flash.

Section 11: Toxicological Information

Routes of Entry: Inhalation, ingestion.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classified for human or animals) by ACGIH.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion or inhalation.

Special Remarks on Chronic Effects on Humans: Possible carcinogen (tumorigen) based on animal data.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effect: Not Available.

Section 12: Ecological Information

Products of Biodegradation: Possibly hazardous short term degradation products are not likely.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Section 13: Disposal Recommendation

Waste Disposal: Waste must be disposed in accordance with federal, state, and local environment regulation.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material in United States.

Identification: Not applicable.

Section 15: Other Regulatory Information

Adjusted to compliant with national standard.

Section 16: Other Information

References: Not available.

*** END OF MSDS ***

