



BAOJI XUANTAI PIGMENT TECHNOLOGY CO., LTD.
ADD: BUILDING B, WEILAN INTERNATIONAL MANSION, LIANHU DISTRICT,
XI'AN, SHAANXI, CHINA.
TEL/FAX: 86-029- 88888558

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Material Safety Data Sheet (MSDS)

Section 1: Company Information

Trade Name: RUTILE TITANIUM DIOXIDE

Baoji Xuan Tai Pigment Technology Co., Ltd.

Add: ROOM, NO. 1608, BUILDING B, WEILAN INTERNATIONAL MANSION, DAQING 3RD ROAD,
LIANHU DISTRICT, XI'AN, SHAANXI, CHINA.

TEL: 86-029- 88888558 FAX:86-029- 88888558

Section 2: Composition and Information of product

Name: Titanium dioxide

Code: RUTILE

Chemical Formula: TiO₂

CAS #: 13463-67-7

EINECS#: 236-675-5

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not classifiable for human or animal.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to lungs, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.



Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing



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is difficult, give oxygen. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Of metals

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Will ignite and burn fiercely in contact with fluorine

Special Remarks on Explosion Hazards: Not combustible.

A violent or incandescent reaction with metals (aluminum, calcium, magnesium, potassium, sodium, zinc, and lithium) may occur at high temperatures.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Do not breathe dust. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as acids.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.





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Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor: Odorless.

Taste: Tasteless

Molecular Weight: 79.9 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: 2750°C (4982°F)

Melting Point: 1855°C (3371°F)

Critical Temperature: Not available.

Specific Gravity: 4.26 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available

Odor Threshold: Not available

Water/Oil Dist. Coeff.: Not available

Ionicity (in Water): Not available

Dispersion Properties: Not available

Solubility:

Insoluble in cold water, hydrochloric acid, nitric acid, diluted sulfuric acid, organic solvents. Soluble in hot concentrated sulfuric acid, hydrofluoric acid, alkali.



Section 11: Toxicological Information



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Chronic Effects on Humans:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.

MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. May cause damage to the following organs: lungs, upper respiratory tract.

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

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Possible carcinogen (tumorgen) based on animal data. No human data found at this time and IARC so far has found inadequate evidence for carcinogenicity in humans.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: Skin exposure to titanium dioxide is virtually harmless. It is reported to be a mild irritant and may cause mechanical irritation (irritation from frictional action). It is believed not to be absorbed through intact skin.

Eyes: Dust may cause mechanical irritation (irritation from frictional action), Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting and diarrhea. It is not absorbed following ingestion. No hazard is expected in normal industrial use.

Inhalation:

Nuisance dust. May be harmful if inhaled. Causes respiratory tract irritation. May affect respiration and blood. Chronic Potential Health Effects: Heavy occupational dust exposures may cause chronic rhinitis, chronic bronchitis, impaired pulmonary function, resemblance of silicosis without any fibrosis, functional change in trachea or bronchi, chronic pulmonary edema.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

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

Special Remarks on the Products of Biodegradation: Not available.



Section 13: Disposal Considerations



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Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Titanium dioxide Rhode Island RTK hazardous substances: Titanium dioxide Pennsylvania RTK: Titanium dioxide Minnesota: Titanium dioxide Massachusetts RTK: Titanium dioxide New Jersey:

Titanium dioxide TSCA 8(b) inventory: Titanium dioxide

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/01/2022 08:15 PM

Last Updated: 11/01/2023 12:00 PM

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