



江西添光钛业有限公司

**JIANGXI TIKON TITANIUM PRODUCTS CO., LTD.**

物质安全数据表

**MATERIAL SAFETY DATA SHEET**

2015 年 2 月

Feb. 2015

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## MATERIAL SAFETY DATA SHEET

### “TIKON” TITANIUM DIOXIDE PIGMENT (DRY POWDER)

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#### 1、CHEMICAL PRODUCT/COMPANY INFORMATION

Manufacture: Jiangxi Tikon Titanium Products Co., Ltd.

Products: Titanium Dioxide

Formula: TiO<sub>2</sub>

Trademark: “添光” (TIKON)

#### **TYPES THAT COVERED BY THIS MSDS:**

TR-33, TR-35, TR-36

#### CONTACT FOR FURTHER INFORMATION:

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#### 2、COPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: TITANIUM DIOXIDE

CAS NO.: 13463-67-7

CONTENT (%) ≥ 94.0

NOTES: % OF THE COMPENENTS ARE ON THE DRY BASIS,FOR SPECIFIC GRADE SPECIFICATION,PLEASE REFER TO THE PRODUCTS MANUAL OF JIANGXI TIKON TITANIUM PRODUCTS CO.,LTD.

#### 3、HEALTH EFFECTS

3.1 Eye contact may cause eye irritation with tearing, pain or blurred vision.

3.2 Non-corrosive and non-sensing to skin. Repeated skin contact may cause rashes due to drying of the skin or cracking; No absorption to skip.

3.3 Short term overexposure by inhalation to Titanium Dioxide may result in irritation of nose, throat, and lunge with cough, difficult breathing or shortness.

Long-term will make existing symptom worse.

3.4 No hazard during normal industrial use.

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#### **4、 FIRST AID MEASURES**

4.1 In case of contact eyes, immediately flush with plenty of water. If irritation persists or worsen, send to hospital.

4.2 If inhaled, remove to fresh air area. If breathing is difficult, give artificial respiration, and immediately send him to hospital.

4.3 In case of contact skin, wash with water and wild soap.

4.4 No specific intervention is indicated, as compound is not likely to be hazardous by ingestion.

#### **5、 FIRE FIGHTING MEASURES**

5.1 Flammable Properties: Will not burn.

5.2 Extinguishing Media: Any media as appropriate for combustibles in area.

5.3 Fire Fighting Instructions: None.

#### **6、 ACCIDENTS RELEASE MEASURES**

6.1 Safeguard(Personal):

Wear protective dust respirator during clean-up.

6.2 Accident Release Disposal:

For dry product, use any mechanical means (e.g. vacuum or sweeping) but avoid dusting clean-up. Flush residue with clean water and avoid entering natural waterways.

#### **7、 HANDLING AND STORAGE**

7.1 Handling (Personal)

In the manufacture of Titanium Dioxide, product is packaged at the temperature of approximately to 80-100 centigrade, when the pigment is shipped shortly after manufacture, it may stay hot for a long time depending on the ambient temperature and inventory storage practice. Due to the potential of the elevated pigment temperature, caution should be paid while handling pigment and in solvent applications. Each work environment must be assessed to determine hazards.

Package Caution: Plastic bag material may cause static ignition hazard in the presence of flammable or explosive vapor/air mixtures. Do not handle or use bags in the presence of flammable or explosive vapor/air mixture.

For dry product avoid breathing dust while manufacturing and minimize the contact with skin.

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7.2 Storage

For dry product, we suggest as following on storage:

- 1) Store in dry areas.
- 2) Mid-sized containers (1000 kg/500kg) for all the grades should not be stacked more than two pallets high.
- 3) All the “TIKON” Titanium Dioxide grades packaged in paper or plastic bags should not be stacked more than three pallets high.
- 4) Product containers of dry product from damage.◦

**8、 EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Exposure Control

Good natural ventilation will be sufficient in most circumstances, Local exhaust ventilation may be necessary if airborne dust concentration approaches the Occupational Exposure Standard.

8.2 Personal Protective Equipment

**Respiratory Protection:** Use approved dust respiratory if exposure limit is or maybe exceeded.

**Hand Protection:** Gloves may be worn when prolonged or repeated contact is likely.

**Eye Protection:** Use safety glasses or goggles to protect against airborne dust.

**Skin Protection:** Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturizer or prolonged contact with skin is likely.

**9、 PHYSICAL PROPERTY**

Physical Data	Dry Powder
Boiling Point	Not applicable
Vapor Pressure	Not Volatile
Vapor Density	Not Volatile
Frozen Point	.....
Melting Point	1830°C
Solubility in Water	Insoluble
PH Value	6.5-8.0 (Extract)
Odor	None
Appearance	Powder, Solid
Color	White
Specific Gravity	3.7-4.0KG/L

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#### 10、 STABILITY AND REACTIVITY

Chemical Stability: Stable.

Incompatibility with other Material:

None reasonably foreseeable

Decomposition:

Decomposition will not occur.

Polymerization:

Polymerization will not occur

#### 11、 THE MATERIAL OF TOXICITY

Animal testing data:

Titanium Dioxide:

ALD for oral: >24.000mg/kg, testing for mouse

ALD for skin: >10.000mg/kg, testing for rabbit

Taking ALC for four hours: >6.82mg/l, testing for mouse

Titanium Dioxide powder has tiny or medium irritant for eyes, tiny irritant for skin, but not causing allergy for animal skin. It doesn't show obvious toxicity effect long-term eating TiO<sub>2</sub>. By taking the concentration of 250mg/m<sup>3</sup>, it does not find any clinical toxicity symptom. By breathing the dust concentration of 50mg/m<sup>3</sup> and 250mg/m<sup>3</sup>, but it does not show in the concentration of 10mg/m<sup>3</sup>. It does not show any evidence for cancer. It does not find any cancer or side-effect on mouse or white mouse when it is raised in lab with the concentration of 50.000PPM. It shows that it will not destroy heredity when titanium dioxide powder in bacteria or the culture of cell or animal.

#### 12、 ECOLOGICAL MATERIAL

Ecological toxicity material

Toxicity in water: LC50 for 96 hours, blackhead fish : >1.000mg/l

#### 13、 WASTE TREATMENT

According to the local laws and regulations, discards the waste to the

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authorized waste lays aside the region.

#### 14、 TRANSPORTATION MATERIAL

Transporting information: This product should be listed as non-dangerous product.

#### 15、 OTHER INFORMATION

Dangerous grade: III

Acute: Yes

Chronic: No

Burning: No

Reaction: No

Pressure: No

Extreme hazardous material: No

Hazardous material: No

Toxic chemicals: No.

#### 16、 ADDITIONAL INFORMATION

Personal protective equipment should be used according to different working environment.

Medical Use: Do not use in medical applications involving permanent implantation in the human body.

For other medical use should consult Jiangxi Tikon Titanium Co., Ltd.

For more specific information on composition and properties, see product manual of Jiangxi Tikon Titanium Products Co., Ltd.

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**Feb. 2015**

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