

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking

**Product Identifier:** TITANIUM DIOXIDE PIGMENT (DRY POWDER)

**Product Name:** TITANIUM DIOXIDE PIGMENT

**Formula:** TiO<sub>2</sub>

**GRADES THAT COVERED BY THIS MSDS:** SR235, SR236, SR237, SR2377, SR238, SR239,SR240,SR2400,SR9000

### Details of the supplier of the safety data sheet

#### Supplier

TZ GROUP INC.  
25511 Budde Rd. Ste. 1502  
The Woodlands, TX. 77380. USA  
Phone: 281-825-5301  
Fax: 832-592-9546  
Website: [www.tauchemicals.com](http://www.tauchemicals.com)

### Emergency Phone Number:

For emergency transportation information, in the United States: call Chemtel 1-800-255-3924 or for international +01-813-248-0585. Contract Number MIS0005345

### COMPOSITION /INFORMATION ON INGREDIENTS

Component	CAS NO.	Content (%)
TITANIUM DIXOIDE	13463-67-7	80-99
ALUMINUM HYOXIDE	21645-51-2	<10
AMORPHOUS SILICA	7631-86-9	<10
ZIRCONIA OXIDE	1314-23-4	<0.75



**HAZARDOUS IDENTIFICATION**

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Health Effects

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

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

Short term overexposure by inhalation to Titanium Dioxide may result in irritation of nose, throat, and lungs with cough, difficult breathing or shortness of breath. Long-term will make existing symptoms worse.

No hazard during normal industrial use.

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**FIRST AID MEASURES**

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First Aid

**EYE CONTACT**

In case of contact, immediately flush with plenty of water, if irritation persists or worsens, send to hospital.

**INHALATION**

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

**SKIN CONTACT**

In case of contact, wash with water and mild soap.

**INGESTION**

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

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**FIRE FIGHTING MEASURES**

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Flammable Properties

Will not burn.

Extinguishing Media

Any media as appropriate for combustibles in area.

Fire Fighting Instructions

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### **ACCIDENTS RELEASE MEASURES**

Safeguard (Personal)

Wear protective dust respirator during clean-up.

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.

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### **HANDLING AND STORAGE**

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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.

The following cautions are provided for grades packaged in plastic bags.

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.

Storage

For dry product, we suggest as following on storage:

Store in dry areas.

Mid-sized containers (1000 kg/500kg) for all the grades should not be stacked more than two pallets high.

All the "Shan guang" Titanium Dioxide grades packaged in paper or plastic bags should not be stacked more than three pallets high.

Protect containers of dry product from damage.

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

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.

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**PHYSICAL PROPERTY**  
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Physical Data	Dry Powder
Boiling Point	Not applicable
Vapor Pressure	Not Volatile
Vapor Density	Not Volatile
Frozen Point	-----
Melting Point	About 1830°C
Evaporation Point	Not Volatile
Solubility in Water	Insoluble
pH Value	4-10 (Extract)
Odor	None
Appearance	Powder, Solid
Color	White
Specific Gravity	3.7-.4.2 kg/l



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**STABILITY AND REACTIVIT**

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Chemical Stability

Incompatibility with other Material  
None reasonably foreseeable

Decomposition (Continued)  
Decomposition will not occur.

Polymerization  
Polymerization will not occur.

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**TOXICOLOGICAL INFORMATION**

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The product contains Titanium Dioxide which is a slight or moderate eye irritant and a slight skin irritant, but is not a skin sensitizer in animal.  
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**ECOLOGICAL INFORMATION**

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Ecotoxicological Information  
Aquatic Toxicity  
96 hours LC50, fathead minnows: >1, 000mg/L  
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**DISPOSAL CONSIDERATION**

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Waste Disposal  
Comply with state, provincial and local regulations. If approved, remove to land disposal area.  
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**TRANSPORTATION INFORMATION**

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Shipping Information  
Not regulated as a hazardous material by DOT, IMO or IATA.  
Shipping Containers:  
Containers, paper bag and plastics bag.



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**REGULATORY INFORMATION**  
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TITLE III HAZARD CLASSIFICATIONS SECTIONS 311,312

Acute: Yes  
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Fire: No

Reactivity: No.

Pressure: No.

EXTREMELY HAZARDOUS SUBSTANCE: NO

CERCLA Hazardous Substance: No

Toxic Chemical: No  
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**RECOMMENDED SHELF-LIFE: TWO YEARS AT RECOMMENDED CONDITION**  
**OTHER INFORMATION**  
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NPCA0HMIS Rating

Health : 1

Flammability : 1

Reactivity: 0

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