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Dynasty Colourants Co., Ltd.

## MATERIAL SAFETY DATA SHEET

Product: Titanium Dioxide R-2295

Date of issue: 07/21/2011

Revise date: 07/09/2012

Number of revision: 3

### 1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY NAME

**Trade name:** Titanium Dioxide R-2295  
**Company identification:** Dynasty Colourants Co., Ltd  
**Address:** 18F (1802-1808), King International, No.345 South HuanCheng West Road, Ningbo China 315000.  
**Phone number:** +86 574 27897999  
**Fax number:** +86 574 27862092  
**E-mail:** info@dynasty-color.com

### 2. COMPOSITION/INFORMATION ON INGREDIENT

Ingredients	Chemical Name	%	CAS No.	ECS No.
TiO <sub>2</sub>	Titanium Dioxide	92 -95	13463-67-7	215-280-1
SiO <sub>2</sub>	Silicon oxide	0-2	7440-21-3	231-130-8
Al <sub>2</sub> O <sub>3</sub>	Aluminium oxide	0-3	7429-90-5	231-072-3

**Hazard Symbols:** None Listed

**Risk Phrases:** None Listed

### 3. HAZARDOUS IDENTIFICATION

(1)Warning:

a.May cause mechanical eye irritation.

b.Nuisance Dust: Long term exposure to airborne concentrations above the recommended exposure limits may cause lung damage.

(2)Protective Measures:

a.Avoid contact with the eyes.

b.Use in well ventilated areas.

c.Do not breathe dust.

### 4. FIRST-AID MEASURES

(1) Inhalation: Remove person to fresh air. If breathing is difficult, provide oxygen and seek medical attention.

(2)Eye Contact: Rinse eyes immediately with water for at least 15 minutes .See a physician.

(3)Skin Contact: Wash skin thoroughly with soap and water.

See a physician if irritation persists.



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(4) Ingestion: Provide symptomatic treatment and seek medical attention.

## 5. FIRE-FIGHTING MEASURES

(1) Extinguishing Media/Fire Fighting Procedures

Use the following extinguishing media when fighting fires involving this material: water fog, foam, dry chemical, or carbon dioxide.

(2) Unusual Hazards

Normal precautions for dusts should be provided. Avoid high concentrations of dust in air.

## 6. ACCIDENTAL RELEASE MEASURES

(1) Release Response

Minimize dusting. CAUTION: may cause a slippery condition when wet. Sweep/shovel up and transfer into a suitable container for re-use or disposal.

(2) Personal Protective Equipment

Wear an air-purifying respirator equipped with filters for protection against dusts and mists. Wear cotton or canvas gloves. Wear safety glasses.

## 7. HANDLING AND STORAGE

(1) Handling

Avoid high concentrations of dust in air through the use of ventilation or other suitable controls.

(2) Storage

This material is not hazardous under normal operating conditions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

(1) Occupational Exposure Limits

Titanium Dioxide: 10mg/m<sup>3</sup>, total

Nuisance Dust: 5mg/ m<sup>3</sup>, respirable

(2) Engineering Control Measures

Use local exhaust ventilation if airborne concentrations exceed recommended exposure limits.

(3) Personal Protection Equipment

Respiratory: Use an air-purifying respirator equipped with filters for protection against dusts and mists.

Hand: Use cotton or canvas gloves.

Eye: Eye protection worn must be compatible with respiratory protection system employed.

(4) Other Control Measures

Use good industrial hygiene practices. Wash hands and face before eating or drinking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



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<b>Appearance:</b>	White powder
<b>Odor:</b>	None
<b>Boiling Range:</b>	N.A.
<b>Melting Range:</b>	>1000°C
<b>Solubility:</b>	Insoluble
<b>Vapor Density:</b>	Heavier than air
<b>%Volatile:</b>	0
<b>Specific Gravity:</b>	4.0 g/cm <sup>3</sup>
<b>Freezing Point:</b>	N.A.
<b>Vapor Pressure:</b>	N.A.
<b>PH:</b>	6.0-9.0
<b>Density at 20°C:</b>	4.0g/cm <sup>3</sup>

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## 10. STABILITY AND REACTIVITY

- (1)Conditions to Avoid: Avoid contact with metals at high temperatures.
- (2)Hazardous Polymerization: Hazardous polymerization will not occur.
- (3)Hazardous Decomposition: Hazardous decomposition will not occur.
- (4)Stability: This material is stable under normal operating conditions.

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## 11. TOXICOLOGICAL INFORMATION

Health Hazards

(1)Effects of Acute Exposure

Inhalation: Inhalation of dust can cause irritation of the nose, throat, and lungs.

Eye Contact: Like any foreign body, particles can cause mechanical irritation.

Skin Contact: This material can cause irritation if not promptly washed from the skin.

Skin Absorption: This product is not expected to be absorbed through intact skin.

Ingestion: This material is not expected to produce adverse effects.

(2)Effects of Chronic Over Exposure

As with any nuisance dust, long-term exposure to concentrations above the recommended exposure limits may overload the lung clearance mechanism and cause adverse lung effects and shortness of breath.

(3)Listed as a suspected or known carcinogen on: None

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## 12. ECOLOGICAL INFORMATION

Not available

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## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Use a licensed waste handler.

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## 14. TRANSPORT INFORMATION

According to IMO IMDG CODE: with no dangerous for shipping



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## 15. REGULATORY INFORMATION

### Designation according to EC guidelines:

Not required

### Risk phrase:

Possible risk of irreversible effects

### Safety advice:

Avoid contact with eyes & skin

### Water hazard class:

Not list in U.N. hazardous list – class 0 (self-assessment)

## 16. OTHER INFORMATION

These dates are based on our present knowledge. Material safety data sheets can never serve the purpose of a specification.

**The end of document**