



# CR GEMS Superabrasives

## MATERIAL SAFETY DATA SHEET

### Synthetic Industrial Diamond Powder (Titanium coated)

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#### SECTION1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** GSD-Ti, GMD-Ti, GMP-Ti

**Company:** CR GEMS Superabrasives Co., Ltd.

**Address:** NO. 3802, SHENGANG ROAD, SONGJIANG DISTRICT, SHANGHAI, 201600, CHINA

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**MSDS Date:** January 1, 2022

#### SECTION2 INFORMATION ON INGREDIENTS

**Product type:** Synthetic Industrial Diamond Powder (Titanium coated)

Ingredient	Concentration	CAS No.
Diamond	80-94%	7782-40-3
Titanium	5-15%	7742-32-6
Titanium Carbide	1-5 %	12070-08-5

#### SECTION3 HAZARDS IDENTIFICATION

**Hazards Identification:** This substance is considered to be non-hazardous material. No acute health affects. No chronic health effects.

**Emergency Overview:** *Eye:* Slight irritation, high concentrations may cause conjunctivitis.

*Skin:* Tissue irritant. *Ingestion:* Tissue irritant. *Inhalation:* Mists or dry dust can cause congestion and tissue irritation.

#### SECTION4 FIRST-AID MEASURES

**Skin Exposure:** In case do contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

**Eye Exposure:** In case of contact of eyes, flush with copious amounts of water. Assure adequate flushing by separation the eyelids with fingers. If irritation persists, call a physician.

**Inhalation Exposure:** If inhaled, remove to fresh air. In necessary, get medical attention.

**Oral Exposure:** Seek medical attention.

## **SECTION 5 FIRE FIGHTING MEASURES**

### **Extinguishing Media:**

Dry chemical, CO<sub>2</sub>, Foam or water.

### **Firefighting:**

For a dust fire confined to small area, use approved respirator to avoid inhaling dust and fumes. For large fires, fire fighters should use self-contained breathing apparatus to avoid inhaling any combustion products.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES AND REACTIVITY**

**Procedures of Personal Precaution:** Clean-up personnel should wear appropriate personal protective equipment.

**Method of Cleaning-up:** Clean up spilled material using a HEPA vacuum, wet mops or wet clean up. Transfer to a dry, clean, lidded container for disposal. Avoid raising dust.

## **SECTION 7 HANDLING AND STORAGE**

### **Handling:**

Wear safety glasses, avoid breathing dust. Use adequate ventilation when grinding, fabricating or using this product. Wash hands after handling.

### **Storage:**

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidants, acids and food.

## **SECTION 8 EXPOSURE CONTROL/ PPE**

**Engineering controls:** use ventilation equipment if available. Safety shower and eye bath.

### **Personal Protective Equipment:**

**Respiratory:** wear dust mask.

**Eye:** wear chemical safety goggles.

**Clothing:** wear appropriate protective clothing.

**Hand:** Wear compatible protective gloves.

**Other protect:** No smoking, drinking and eating at working site. Wash thoroughly after handling.

## **SECTION 9 PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** The diamond powder is from grey to black.

**Odour:** none

**Solubility in water:** n/a

## **SECTION10 STABILITY AND REACTIVITY**

**Stability:** stable under normal temperatures and pressures.

**Conditions to Avoid:** Airborne fine powder dust in confined spaces. High heat and flame, diamond begins to burn at 800°C.

**Materials to avoid:** Strong acids and dust with strong oxidizer may cause fire or explosion.

**Hazardous Decomposition:** Carbon dioxide.

## **SECTION11 TOXICOLOGICAL INFORMATION**

**Toxicity Data:** No data available.

**Irritation Data:** Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

## **SECTION12 ECOLOGICAL INFORMATION**

No data available.

## **SECTION13 DISPOSAL CONSIDERATIONS**

**Appropriate Method of Disposal of substance:**

Dispose of in accordance with appropriate government regulation. May be sold as scrap for reclaim.

## **SECTION14 TRANSPORT INFORMATION**

### **DOT**

Non-hazardous for Transport: this substance is considered to be non-hazardous for transport.

**ADR/RID Class:** None

Non-Hazardous for transport: This substance is considered to be non-hazardous for transport.

### **IATA**

Non-Hazardous for Air Transport: Non-Hazardous for Air Transport.

### **IMO**

Non-Hazardous for Sea Transport: Non-Hazardous for Sea Transport.

**UN Number:** None

## **SECTION15 REGULATORY INFORMATION**

**Regulations:** This MSDS has been prepared according to EU-regulation. This product

complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

## **SECTION16 OTHER INFORMATION**

### **Other information:**

The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.