



CR GEMS Superabrasives

MATERIAL SAFETY DATA SHEET

Synthetic Industrial Diamond Powder (Titanium Nickel coated)

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: GSD(TiNi-Coated); GMD (TiNi-Coated)

Company: CR GEMS Superabrasives Co., Ltd.

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MSDS Date: January 1, 2022

SECTION2 INFORMATION ON INGREDIENTS

Product Type: Synthetic Industrial Diamond Powder (Titanium Nickel coated)

CAS No.	Chemical Name	% BY WEIGHT	OSHA PEL-TWA	ACGIH TLV-TWA
7782-40-3	Diamond	44%	-	-
7742-32-6	Titanium	0.4%	-	-
7440-02-0	Nickel	29.5%~29.4%	-	-
12070-08-5	Titanium Carbide	0.1%~0.2%	-	-

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 mechanical irritation.

Skin: Tissue irritant. *Ingestion:* Tissue irritant. *Inhalation:* Mists or dry dust can cause respiratory tract 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 at least 15 minutes. 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.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Noncombustible substance; use agent most appropriate to extinguish fire.

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.

SECTION6 ACCIDENTAL RELEASE MEASURESAND REACTIVITY

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

Method of Cleaning-up: Clean up spilled material and transfer to a dry, clean, lidded container for disposal. Provide ventilation and avoid raising dust.

SECTION7 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.

SECTION8 EXPOSURE CONTROL/ PPE

Engineering controls: use ventilation equipment. 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.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Monocrystal, grey.

Odor: none

Solubility in water: N/A

SECTION10 STABILITY AND REACTIVITY

Stability: stable under normal temperatures and pressures.

Conditions to Avoid: Excess heat & strong acids.

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

SECTION11 TOXICOLOGICAL INFORMATION

Inhalation: TiNi -Coated diamond powder dust may irritate throat and respiratory system, may cause coughing.

Skin Contact: TiNi -Coated diamond powder may cause irritation.

Eye Contact: TiNi -Coated diamond powder may cause irritation.

SECTION12 ECOLOGICAL INFORMATION

No data available.

SECTION13 DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal of substance:

Dispose of in accordance with appropriate government regulation. Reclaiming is encouraged.

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 mark 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 purposed. 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.