

# ZZDM Superabrasives

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## MATERIAL SAFETY DATA SHEET

### SECTION ONE PRODUCT IDENTIFIER

**Product Name:** Synthetic Industrial Diamond Powder  
**Product Description:** MSD Series Diamond, MGD Series Diamond  
Synthetic Diamond Grits.  
**Applications:** Cutting and Grinding various non-ferrous materials.  
**Manufacturer:** ZZDM Superabrasives (SDT Group)  
**Emergency Call:** 0086-371-6570 7310  
**Prepared Date:** May 10, 2013

### SECTION TWO INFORMATION ON INGREDIENTS

Component	CAS No.	Percentage by weight
Diamond	7782-40-3	44-100%
Nickel	7440-02-0	0-56%
Copper	7440-50-8	0-50%

Remarks: exact percentage by weight figured depending on product type.

### SECTION THREE HAZARD IDENTIFICATION

Diamond is not a hazardous material. No acute and chronic health effects. Exposure to the elements listed in Section Two, by skin contact, ingestion and inhalation can occur when handling, chemically treating, heat treating, abrasive cutting, grinding, polishing or abrading the surface of these materials in a manner which generates particulates.

Potential Health Effects:

**Eye:** Slight irritation, high concentrations may cause conjunctivitis.  
**Skin:** Tissue irritant. Nickel may cause dermatitis.  
**Ingestion:** Tissue irritant.  
**Inhalation:** Mists or dry dust can cause congestion and tissue irritant.

### SECTION FOUR FIRST AID MEASURES

**Eye contacts:** Remove contact lenses. Flush eyes with pure water.  
**Skin contact:** Wash affected areas thoroughly with soap and water.  
**Ingestion:** Seek medical attention.  
**Inhalation:** Remove to fresh air.

## SECTION FIVE FIRE FIGHTING MEASURES

Diamond is not a fire hazard and under normal conditions is non-combustible. But diamond dust produced from some processes may be flammable and may pose a fire hazard if allowed to accumulate in the presence of an ignition source.

Coated diamond may generate toxic gases during a fire and self-contained breathing apparatus should be worn.

<b>Flash Point:</b> n/a	<b>Lower Flammable Limit:</b> n/a
<b>Lower Explosive Limit:</b> n/a	<b>Upper Flammable Limit:</b> n/a
<b>Upper Explosive Limit:</b> n/a	<b>Autoignition:</b> n/a
<b>Hazardous Combustion Products:</b> n/a	<b>Conditions of Flammability:</b> n/a
<b>Extinguishing Media:</b> dry chemical, CO <sub>2</sub> , Foam or water.	

## SECTION SIX ACCIDENTAL RELEASE MEASURES

**General:** Sweep up material. Prevent dust from becoming airborne.

**Small Spills:** See above.

**Large Spills:** See above.

## SECTION SEVEN HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Wash hands after handling. Keep dust below TLV(s).

**Storage:** No special precautions.

## SECTION EIGHT EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** See Section 2.

**Ventilation:** Local, recommended. Mechanical (General), Recommended.

**Respiratory Protection:** Dust mask.

**Eye Protection:** Recommend safety glasses or goggles.

**Skin Protection:** Protective gloves if needed. Wash after exposure.

**Other:** n/a

Measures to be taken during repair and maintenance of contaminated equipment that has been in contact with this material: Prevent dust from becoming airborne.

## SECTION NINE PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Powder	<b>Wet. Per Gallon:</b> n/a	<b>Volatile Fraction by Weight:</b> n/a
<b>Vapor Pressure:</b> n/a	<b>Liquid Density:</b> n/a	<b>Specific Gravity:</b> 3.513
<b>Vapor Density:</b> n/a	<b>Freezing Point:</b> n/a	<b>Odor:</b> Odorless
<b>Solubility in Water:</b> No	<b>Boiling Point:</b> n/a	
<b>PH:</b> n/a	<b>Evaporation Rate:</b> n/a	

## **SECTION TEN STABILITY AND REACTIVITY**

**Stability:** Stable

**Incompatibility:** Inert

**Reactivity:** n/a

**Hazardous Polymerization:** Does not occur.

**Decomposition:** Inert

**Conditions to be Avoided:** Large amounts of airborne fine suspended in confined areas.

## **SECTION ELEVEN TOXICOLOGICAL INFORMATION**

**Data:** n/a

## **SECTION TWELVE ECOLOGICAL INFORMATION**

**Data:** n/a

## **SECTION THIRTEEN DISPOSAL INFORMATION**

**RCRA Hazardous Waste:** n/a.

**Waste Disposal:** Recycling is encouraged. Disposal in landfill is acceptable.

## **SECTION FOURTEEN TRANSPORTATION INFORMATION**

ADR: Not regulated. RID: Not regulated. IMDG: Not regulated. ICAO/IATA: Not regulated.

## **SECTION FIFTEEN REGULATORY INFORMATION**

**Regulations:** This MSDS has been prepared in accordance with EU-regulations.

## **SECTION SIXTEEN OTHER INFORMATION**

**Nickel:** R40 possible risk of irreversible effects. R43 May cause sensitization by skin contact.

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n/a = Not Applicable