



# Material Safety Data Sheet

## Section 1: Product and Company Identification

Product name: Metal Bond/Resin Bond-mesh & micron, Polycrystalline Powder  
Description: Synthetic diamond powder, nickel coated synthetic diamond.  
Recommended application: Sawing, Cutting, Electroplating, Lapping and Polishing.

Manufacturer: DELSTAR LTD-10 DOV LEVIATAN STREET, PETACH TIKVA  
4927177, ISRAEL.

For consumer information: Call 972-3-541-6269.

## Section 2: Composition/Information on Ingredients

<b>Material</b>	<b>CAS No</b>	<b>% Weight</b>	<b>OSHA PEL-TWA</b>	<b>ACGIH TLV-TWA</b>
SYNTHETIC DIAMOND	7782-40-3	100%	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>
NICKEL	7440-02-0	0...55%	1mg/m <sup>3</sup>	1.5mg/m <sup>3</sup>

Exact weight % depends on the grade of the product.

## Section 3: Hazard Identification

Diamond is not a hazardous material. No acute health effects. No chronic health effects. Metallic Nickel is listed by IARC as a Group 2B – Possibly Carcinogenic to Humans.

Exposure to the elements listed in section 2, by skin contact, ingestion and inhalation can occur when handling, chemically treating, heat treating, abrasive cutting, grinding, Polishing or abrading the surface of this material 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 irritation.



### **Section 4: First Aid**

*Inhalation:* If high concentrations are inhaled or if worker exhibits trouble breathing, remove to fresh air,

if symptoms persist, seek medical attention.

*Skin Contact:* Wash affected areas thoroughly with soap and water. Seek medical attention if irritation

persists.

*Eye Contact:* Remove contact lenses. Flush eyes with water for 15 minutes. Seek medical attention if

irritation persists.

*Ingestion:* Seek medical attention.

### **Section 5: Fire Fighting**

Diamond is not a fire hazard and under normal conditions is non-combustible. However 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 materials may generate toxic gases during a fire and an adequate breathing apparatus should be worn.

Extinguishing Media: Dry chemical, CO<sub>2</sub>, Foam or water spray.

Do not use water jet.

Special information for Fire Fighters: 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.

Flammability: May be combustible at high temperature. Flash Point: n/a

Flammable limits: n/a Auto-ignition temperature: n/a

### **Section 6: Accidental Release Measures**

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

as detailed in Section 8 of this document. Respiratory protection should be worn if hazardous components exceed exposure limits listed in Section 2 of this document.

*Environmental Precaution:* Isolate the area where the spill has occurred, do not walk through or scatter

the spilled material. Avoid from entering water or ground water.

Waste disposal should be in accordance with local environmental regulations.

*Method of Cleaning-up:* Clean up spilled material using a HEPA vacuum, wet mops or wet clean up.

Avoid generating dust during clean up operations.

### **Section 7: Handling and Storage**

*Handling:* Avoid contact with skin and eyes. Wash hands after handling. Maintain good housekeeping procedures to avoid dust accumulation or product becoming airborne.

*Storage:* Keep material in a tightly closed container. Store in a cool dry area. Avoid incompatible substances.

### **Section 8: Exposure Control / Personal Protection**

*Engineering Measures:* Local ventilation should remove any vapor or mist generated while handling the product.

*Personal Protection Equipment:* Wear safety glasses with side shields when handling the product.

Wear appropriate and approved respirator if airborne dust concentrations of hazardous components exceed exposure limits listed in Section 2 of this document. Wear protective gloves or barrier cream to avoid skin contact with product. Wear appropriate clothing to avoid skin contact with dust generated during handling operations.

*Hygiene Measures:* Clean environment is required. Wash hands after handling.

### **Section 9: Physical and Chemical properties**

<b><u>Appearance:</u></b> color is YELLOW, GREEN, GREY AND BLACK (POLYCRYSTALLINE)		
Odour : N/A	PH: N/A	Boiling point: N/A
flash point: N/A	Flammability: N/A	Explosive properties: N/A
Vapour pressure : N/A	Relative density: N/A	Oxidizing properties: N/A
Vapour density: N/A	Partition coefficient: N/A	Viscosity: N/A
Water soluble: N/A	Evaporation rate: N/A	

### **SECTION 10 : STABILITY AND REACTIVITY**

*Stability:* Stable

*Conditions to Avoid:* Airborne fine powder dust in confined spaces. High heat and flame, diamond begins to burn at 1200°C.

*Materials to Avoid:* Contact with strong acids. Contact of dust with strong oxidizer may cause fire or explosion.

*Hazardous Decomposition:* Carbon dioxide.



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## **SECTION 11 : TOXICOLOGICAL INFORMATION**

*Inhalation:* Diamond dust may irritate throat and respiratory system, may cause coughing.

*Skin Contact:* Diamond dust may irritate skin.

*Eye Contact:* Diamond dust may cause irritation.

*Ingestion:* Not likely due to the form of the product.

## **SECTION 12 : ECOLOGICAL INFORMATION**

*Mobility:* Not relevant.

*Persistence / Degradability:* Not relevant.

*Bioaccumulation:* Not relevant.

*Eco-toxicity:* This product is not expected to be toxic to the environment.

Adopt sound working practices, so that the product is not released into the environment.

## **SECTION 13 : DISPOSAL CONSIDERATIONS**

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

## **SECTION 14 : TRANSPORT INFORMATION**

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

UN Classification: Not applicable. UN Number: Not applicable.

Domestic Regulation:

- Land Transportation: Fire Service Act: Non dangerous goods.
- Marine Transportation: Ship Safety Law: Non dangerous goods. (For individual carriage and bulk carriage.)
- Aerial Transportation: Aerial Law: Non dangerous goods. Specific safety measures on transport:
  - Handle carefully so as not to damage the container.
  - Load it with sufficient packing so as not to cause load collapse or fall accident.



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## **SECTION 15 : REGULATORY INFORMATION**

*Regulations:* This MSDS has been prepared according to EU-regulation. EC Directives 67/548/EEC & 88/379/EEC. ISO 11014 Safety Data Sheet for Chemical Products.

## **SECTION 16 : OTHER INFORMATION**

The information contained herein is based on our state of knowledge at the above-specified date.

It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.