

**FINE ABRASIVES TAIWAN CO., LTD.**

No.160, Daxing 10th St., Luzhu Dist., Taoyuan City 33862, TAIWAN

TEL: 886-3-313-3343

FAX: 886-3-313-3228

WEBSITE: <http://www.factdiamond.com>E-MAIL: fact@factdiamond.com**MATERIAL SAFETY DATA SHEET**
MGD**SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : MGD<METAL BOND & ELECTRO PLATING GRINDING DIAMOND>

PRODUCT DESCRIPTION : YK、YK-E、YK-J、YK-JQ、YK-EQ、BBD、BBD-J、CK-J、TiYK、TiYK-J、YK-NS、YK-Cu SERIES

COMPANY NAME : FINE ABRASIVES TAIWAN CO.,LTD.

COMPANY INFO. : No.160, Daxing 10th. St. Luzhu Dist.,Taoyuan City 33862, TAIWAN

TEL : 886-3-313-3343 **FAX :** 886-3-313-3328

DATA UPDATE : 10/12/2023

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

MATERIAL	CAS NO.	%BY WEIGHT	OSHA PEL-TWA	ACGIH TLV-TWA
DIAMOND	7782-40-3	~100%	15mg/m ³	10mg/m ³
NICKEL	7440-02-0	~60%	1mg/m ³	1.5mg/m ³
COPPER	7440-50-8	~50%	1mg/m ³	1mg/m ³
TITANIUM	7440-32-6	~4%	15mg/m ³	10mg/m ³
BORON	7440-42-8	~80%	10mg/m ³	5mg/m ³

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SECTION 3 HAZARD IDENTIFICATION

Diamond is not a hazardous material. NO acute health effects. No chronic health effects. 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. Metallic Nickel is listed by IARC as a Group 2B - Possibly Carcinogenic to Humans. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects and copper deposition in the cornea as exemplified by humans with Wilson's disease.

Potential Health Effects:

Eye : Slight irritation, high concentrations may cause conjunctivitis.

Skin: Tissue irritant. Nickel may cause dermatitis. Nickel is a contact allergen and sensitizer.

Ingestion: Tissue irritant.

Inhalation: Mists or dry dust can cause congestion and tissue irritation.

SECTION 4 FIRST AID MEASURE

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 if irritation persists.



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SECTION 5 FIRE FLGHTING MEASURES

Diamond is not a fire hazard and under normal condition is non-combustible. However dust produced from working may be flammable and may pose a fire hazard .

Flash point : N/A

Upper Explosion Limits : N/A

Lower Explosion Limits : N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal protection : Use proper protective equipment as indicated in SECTION 8
Respiratory protection should be worn if hazardous components exceed exposure limits listed in section 2

Environmental : Isolate the area the spill has occurred.

Method of Cleaning-up : Clean-up spilled material.Avoid generating dust during clean-up

SECTION 7 HANDING AND STORAGE

Handing : Avoid contact with skin and eyes.Wash hands after handling.Maintain good house keeping procedures to avoid dust accumulation or product becoming airborne.

Storage:Keep material in a tightly closed. Store in a cool dry area.



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SECTION 8 EXPOSE CONTROLS/PERSONAL PROTECTION

Engineering Measures : Local ventilation should remove any vapour or mist generated while handling this product.

Hygiene Measures : Wash hand after handling.

Personal Protection Equipment : Wear safety glasses with side shields when grinding or cutting this product. Wear safety glove to avoid contact directing. Wear protective appropriate clothing to avoid skin contact with dust generated during operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

The Diamond Powders is normally yellow or grey-white but will vary due to the coating on diamond surface. If coated with Nickel or Titanium the powder will be grey powder. If coated with copper the powder will be pink powder.

Odour : none

Flash point : N/A

Explosive properties : N/A

Solubility in water : N/A

pH : N/A

Flammability : N/A

Vapor pressure : N/A

Partition coefficient : N/A

Boiling point : N/A

Vapour Density : N/A

DATE : 2022.11.08



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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 800oC. Under special conditions, nickel can react with carbon monoxide in reducing atmosphere to form nickel carbonyl, a toxic gas. Copper reacts violently with acetylene, ammonia nitrate, bromates, chlorates,iodates, chlorine compounds, ethylene oxide, fluorine, hydrogen peroxide, hydrazine, hydrogen sulphide, hydrazoic acid, lead azide, potassium peroxide,sodium azide and sodium peroxide.

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 coughi

Skin Contact: Diamond dust may irritate skin.

Eye Contact: Diamond dust may cause irritation.

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

Acute Toxicity: Nickel is identified by IARC as a group 2B carcinogen.

Copper is a irritating to skin and eyes. Inhalation of copper will cause irritation to the lungs. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelisation, kidney defects and copper deposition in the cornea as exemplified by humans with Wilson's disease.

Local effects: n/a

Sensitization: n/a

Chronic Toxicity: n/a

Long term Toxicity: n/a

Specific Effects: n/a



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SECTION 12 ECOLOGICAL INFORMATION

Mobility :	No influence
Persistence/Degradabil	No influence
Bioaccumulation :	No influence
Eco-toxicity :	This product is not expected to be toxic to the environment. Adopt sound working practices,so that the product is not releasr 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.

SECTION 15 REGULATORY INFORMATION

Regulations : This MSDS has been prepare according to EU regulation.EC Directives
67/548/EEC & 88/379/EEC



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SECTION 16 OTHER INFORMATION

Nickel:R40 possible risk of irreversible effect. R43 May cause sensitisation by skin contact.

The information contained herein is base on our state of knowledge at the above-specified date.If refers solely to the product indicated and constitutes no guarantee of particular quality.It is the duty of user that this information is appropriate and complete with respect to the specific use intended.The MSDS cancels an replaces any preceding release.