

SECTION 1. IDENTIFICATION

1-1 Product identification

Resin Bonded Diamond & CBN Grinding Wheels

1-2 Recommended use

Abrasive products

1-3 Company/undertaking identification

Manufacturer : EHWA DIAMOND IND.CO.,LTD

E-Mail :

Information contact : +82-31-370-9000

National contact : 520-2, Won-Dong, Osan-City, Kyungki-Do, Republic of Korea

1.4 EMERGENCY TELEPHONE

+82-31-370-9000

SECTION 2. HAZARDS IDENTIFICATION

This section is made on base of raw-materials.

Note) This product is an article as defined by EU(Regulation(EC)No1272/2008) regulations.

2-1. Hazard classification

Skin corrosion/Skin irritation : Category 2

Serious eye damage/eye irritation : Category 2

Carcinogenicity : Category 1B

Specific target organ toxicity(single exposure) : Category 1

2-2 GHS label elements, including precautionary statements

Symbol



Signal word : Danger

Hazard statements

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350: May cause cancer

Precautionary statements

Prevention

P201: Obtain special instructions before use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P281: Use personal protective equipment as required.

Response

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

Storage

Not applicable.

Disposal

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	CAS number	% by Wt
Cured Resin	Mixture	30%
Carborundum	409-21-2	30%
Copper	7440-50-8	40%

SECTION 4. FIRST AID MEASURES

4-1 Description of first aid measures**Inhalation**

If symptoms develop(coughing, wheezing, shortness of breath, etc), remove from exposure and obtain medical assistance, as needed.

Skin contact

If irritation occurs, wash affected areas with soap and water. Obtain medical assistance, as needed.

Eye contact

If irritation occurs, flush with large amounts of water. Obtain first aid and medical assistance, as needed.

Ingestion

Obtain medical assistance.

4-2 Most important symptoms and effects, both acute and delayed

Refer to Section 11.1. Information on toxicological effects.

4-3 Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5. FIRE FIGHTING MEASURES

5-1 Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5-2 Special hazards arising from the substance or mixture

No inherent in this product.

5-3 Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6-1 Personal precautions

Not applicable

6-2 Environmental precautions

Not applicable

6-3 Methods for cleaning up

Not applicable

SECTION 7. HANDLING AND STORAGE

7-1 handling

Advices on safe handling:

For industrial or professional use only.

Avoid breathing of dust created by grinding/polishing/abrasion.

Check product for damage such as cracks or nicks prior to use. Replace if damaged.

(Damaged product can break apart during use and cause serious injury to face or eyes.)

Always wear eye and face protection when working at grinding/polishing/abrasion operations.

Keep a safe distance when working at sanding/cutting/grinding operations.

Use personal protective equipment (gloves, respirators, etc.) as required.

7-2 Storage

No special storage requirements

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8-1 Exposure limits

Ingredient	CAS number	TWA (ACGIH)	Additional Comments
Carborundum	409-21-2	15mg/m ³ (total dust) 5mg/m ³ (respirable fraction)	
Copper	7440-50-8	1mg/m ³ (dust or mist) 0.1mg/m ³ (fume)	

TWA: Time-Weighted-Average

8-2 Exposure controls

Engineering controls

Provide appropriate local exhaust ventilation for grinding/polishing/abrasion.

Use local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are

designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment (PPE)

Respiratory protection

Assess exposure concentrations of all materials involved in the work process.

Select and use appropriate respirators to prevent inhalation overexposure.

Hand protection

Select and use gloves approved to relevant local standards to prevent skin contact based on the results of an exposure assessment.

Eye/face protection

To minimize the risk of injury to face and eyes, always wear eye and face protection when working at grinding, sawing, sanding, machining and drilling operations or when near such operations.

Select and use eye/face protection to prevent contact based on the results of an exposure assessment.

The following eye/face protection(s) are recommended: Safety Glasses with side shields

Body protection

Select and use protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9-1 Appearance

Physical state	: Soild
Colour	: Soild abrasive product
Odour	: Odorless

9-2 Important health, safety and environmental information

pH (20 °C)	: Not applicable
Melting point/range (°C)	: Not applicable
Boiling point/range (°C)	: Not applicable
Flash point (°C)	: Not applicable
Ignition temperature (°C)	: Not applicable
Vapour pressure (°C)	: Not applicable
Density (g/cm ³)	: Not applicable
Bulk density (kg/m ³)	: Not applicable
Water solubility (20°C in g/l)	: Not applicable
Partition coefficient	: Not applicable
n-Octanol/Water (log Po/w)	: Not applicable
Viscosity, dynamic (mPa s)	: Not applicable
Dust explosion hazard	: Not applicable
Explosion limits	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

10-1 Conditions to avoid

None known

10-2 Materials to avoid

None known

10-3 Hazardous decomposition products

None known

SECTION 11. TOXICOLOGICAL INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11-1 Signs and Symptoms of Exposure**Inhalation**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects(see below). Dust from grinding, sawing, sanding, machining and drilling may cause target organ effects.

Skin Contact

Not applicable

Eye Contact

Not applicable

Ingestion

Not applicable.

11-2 Acute effects (toxicity tests)

Route	Ingredient	Effect dose	Species	Additional Comments
Dermal	Carborundum	LD50 > 5,000 mg/kg	Rat	
Ingestion	Carborundum	LD50 > 5,000 mg/kg	Rat	
Dermal	Copper	LD50 > 2,000 mg/kg	Rat	
Inhalation-dust/mist	Copper	LC50 > 5.11 mg/l	Rat	
Ingestion	Copper	LD50 > 2,000 mg/kg	Rat	

11-3 CMR effects

Carcinogenicity : Contains a chemical or chemicals which can cause cancer.

IARC : No data available

OSHA : No data available

ACGIH : No data available

NTP : No data available

EU CLP : No data available

Germ cell Mutagenicity

No data available

Toxicity for Reproduction

No data available.

SECTION 12. ECOLOGICAL INFORMATION

Products have no ecological effects when properly used and stored.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

The substrate that was abraded must be considered as a factor in the disposal method for this product.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility.

SECTION 14. TRANSPORT INFORMATION

No specific regulations for transportation are required.

SECTION 15. REGULATORY INFORMATION

15-1 EU regulations

Refer to SECTION 2 of this SDS

Contact EHWA DIAMOND IND.CO.,LTD for more information.

15-2 National regulations

Contact EHWA DIAMOND IND.CO.,LTD for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16. OTHER INFORMATION

SDS revision date: 03.06, 2015

Reason for update: Mandated update

Disclaimer

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Company makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can

affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.