Material Safety Data Sheet

acc. to EC-Directive No. 1907/2006 (REACH) and CLP-Directive No. 1272/2008 (GHS)

Page: 1 of 5

04.07.2024

Diamond and Cubic Boron Nitride Grinding Tools with Hybrid Bonds

1. Identification of the	Substance /	Preparation ar	nd Com	pany / Undertaking	
Product name:		Diamond and CBN Grinding Tools with Hybrid Bonds		Bonds	
Supplier:		Günter Effgen GmbH Am Teich 3-5 D-55756 Herrstein			
Authorized person:		M.Gerhardt,	Techr	nical Director Hybrid Bonds	
Phone: Mail: Internet:		+49 (0) 6785 / info@effgen.de www.effgen.co	<u>}</u>		
stored. When used on gr During the grinding open being ground and, for we must therefore be given vices must be installed.	inding mach ration 90 % out on the grinding, for the nature	ines they require or more of the p from aerosols ge	e specifi articulat enerated	o not create any risk when hat measures to protect the operate of the dust come from the by the grinding fluid. Specified and the appropriate protection	perators. e material ific attention
2. Hazards Identification	<u>on</u>				
Diamond and boron nitri No. 88/379 and REACH			ngerous	products as defined in EC-I	Directive
3. Composition / Inform	nation on Ir	ngredients			
Abrasive:	(x) (x) ()	Diamond CBN Others:			
Bond:	() () (x)	Vitreous Metal Resin:	()	Phenol Polyimid Epoxide	

Epoxide Hybrid

(x)

Electroplated

()

Material Safety Data Sheet

acc. to EC-Directive No. 1907/2006 (REACH) and CLP-Directive No. 1272/2008 (GHS)

2 of 5 Page:

04.07.2024

Diamond and Cubic Boron Nitride Grinding Tools with Hybrid Bonds

Fillers:	()	Halogen Compounds
	(x)	Carbides
	(x)	Metals
	(x)	Oxides
	()	Sulphur Compounds
	()	Others:
Core Material:	()	Ceramics
	(x)	Metal
	(x)	Resin
Others:	None	
4. First-Aid Measures		
TI III III III III III III III III III		

Only for application on grinding machines.

The following recommendations are basic rules during a grinding operation, they must be followed in conjunction with the information appearing in the Safety Data Sheets of the material ground and of the grinding fluid when used.

- Dust inhalation: Remove from exposure, seek medical advice if symptoms persist.

- Eye contact: Remove from exposure and flush with clean water. If symptoms persist seek

medical advice.

- Skin contact: No hazardous effect known.

- Ingestion: No hazardous effect known.

5. Fire-Fighting Measures

None specific. Water, powder, foam, sand, CO₂ ... can be used if compatible with operating conditions.

6. Accidental Release Measures

Not applicable.

Material Safety Data Sheet

acc. to EC-Directive No. 1907/2006 (REACH) and CLP-Directive No. 1272/2008 (GHS)

Page: 3 of 5

04.07.2024

Diamond and Cubic Boron Nitride Grinding Tools with Hybrid Bonds

7. Handling and Storage

Follow recommendations for machines and national regulations.

Store diamond and CBN abrasives in moderate constant temperature and humidity conditions. For detailed recommendations refer to the FEPA Safety Leaflet for diamond and CBN abrasives.

8. Exposure Control and Personal Protection

Not applicable when diamond or CBN grinding tools are handled or stored.

During the grinding operation with diamond or CBN abrasives particles of dust come from the material being ground. The general value for fine dust is max. 1,25 mg/m³.

When using diamond or CBN abrasives, refer to grinding machines instructions and to the national rules. Refer also to the FEPA Safety Leaflet for diamond and CBN abrasives.

The following personal protective equipment should be used dependent on the operation and the material being ground.

Eye protection: Machine guarding and safety goggles or face shield.

Dust protection: Use of dust mask.

Hand protection: Use of barrier cream and protective gloves.

Ear protection: Use of ear defenders or equivalent.

Skin protection: Use of suitable protective clothing.

Hygiene Measures: No specific requirements.

Material Safety Data Sheet

acc. to EC-Directive No. 1907/2006 (REACH) and CLP-Directive No. 1272/2008 (GHS)

Page: 4 of 5

04.07.2024

Diamond and Cubic Boron Nitride Grinding Tools with Hybrid Bonds

9. Physical and Chemical Properties

Physical state: Solid

Colour: Variable

Odour: Not applicable (may give off non specific odour in use)

pH: Not applicable

Change of physical state: Not applicable

Density: Not applicable

Powder density: Not applicable

Vapour pressure: Not applicable

Flash point: Not applicable

Explosive properties: Not applicable

Viscosity: Not applicable

Solubility in water: Not defined

10. Stability and Reactivity

Diamond and CBN grinding tools are stable and non reactive when handled or stored.

Conditions to avoid: Extreme heat, cold, direct sunbeam and humidity.

Material to avoid: Strong acids, strong bases and strong oxidizing agents may modify

the mechanical characteristics of the products and create safety

hazards when used on machines.

Hazardous decomposition

products: If diamond or CBN abrasives are used in accordance with instruc-

tions no hazardous decomposition products are created.

Material Safety Data Sheet

acc. to EC-Directive No. 1907/2006 (REACH) and CLP-Directive No. 1272/2008 (GHS)

Page: 5 of 5

04.07.2024

Diamond and Cubic Boron Nitride Grinding Tools with Hybrid Bonds

11. Toxicological Information

Not applicable when handled or stored.

According to the experience gathered for many years, diamond and CBN abrasives, when properly used, have no adverse effect on health, refer to the preliminary note about dust and aerosols of grinding fluid.

12. Ecological Information

Mobility: Not applicable

Persistence and degradability: Not biodegradable

Bioaccumulative potential: Not applicable

Ecotoxicity: Not applicable

13. Disposal Considerations

After use, diamond or CBN grinding tools may be contaminated with hazardous materials (particles or cooling agents) and should be disposed of in accordance with national regulations.

14. Transport Information

Diamond or CBN abrasives are not dangerous products.

15. Regulatory Information

EC-Regulations: None. No specific marking required under the EC-Directive No. 88/379

and REACH-Directive No. 1907/2006.

National or Local

Regulations: Refer to relevant texts.

Warning! The above indications are based on existing practice and do not constitute

a guarantee. The laws and regulations must be strictly followed by the users who remain responsible for the use of diamond and CBN grinding tools.