# Material Safety Data Sheet acc. to EC-Directive No. 1907/2006 (REACH)

and CLP-Directive No. 1272/2008 (GHS)

Page: 1 of 5

03.05.2018

Diamond and Cubic Boron Nitride Grinding Tools with Vitrified Bonds

1. Identification of the	e Substance /	Preparation a	and Com	pany / Undertaking	
Product name:		Diamond and CBN Grinding Tools with Vitrified Bonds			
Supplier:		Günter Effgen GmbH Am Teich 3-5 D-55756 Herrstein			
Authorized person:		M.Groß,	Techn	nical Director Vitrified Bonds	
stored. When used on a During the grinding op being ground and, for the store of th	grinding mach peration 90 % of wet grinding, to to the nature	ines they requi or more of the from aerosols g	5 / 1858 de de which do ire specifi particulat generated	o not create any risk when handled or to measures to protect the operators. tes of the dust come from the material by the grinding fluid. Specific attention uid and the appropriate protection de-	on
	tride grinding		angerous	products as defined in EC-Directive	
3. Composition / Info	rmation on Ir	ngredients			
Abrasive:	(x) (x) ( )	Diamond CBN Others:			
Bond:	(x) ( ) ( )	Vitrified Metal Resin:	( )	Phenol	

( )

Electroplated

Polyimid Epoxide Others:

# **Material Safety Data Sheet**

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

Page: 2 of 5

03.05.2018

Diamond and Cubic Boron Nitride Grinding Tools with Vitrified Bonds

Fillers: ( )	Halogen Compounds
--------------	-------------------

- (x) Carbides(x) Metals(x) Oxides
- ( ) Sulphur Compounds
- (x) Nitrides

Core Material: (x) Ceramics

- (x) Metal
- (x) Carbon Fiber

Others: None

# 4. First-Aid Measures

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, CO<sub>2</sub> ... 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

03.05.2018

Diamond and Cubic Boron Nitride Grinding Tools with Vitrified 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/m<sup>3</sup>.

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

03.05.2018

Diamond and Cubic Boron Nitride Grinding Tools with Vitrified 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

03.05.2018

Diamond and Cubic Boron Nitride Grinding Tools with Vitrified 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.