



FEDERATION EUROPEENNE DES  
FABRICANTS DE PRODUITS ABRASIFS

EG – Material Safety Data Sheet  
**Grinding tools CBN (B) / Diamond (D)**  
**- vitrified bond (V) -**  
Version/Date: 28.07.2010



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**MATERIAL SAFETY DATA SHEET FOR INORGANIC BONDED ABRASIVES**  
**- Formatted by FEPA as per EC Directive 91/155/EG and ISO Standard 11014 -**

## 1. Identification of Product and Company

### 1.1 Product name:

Grinding tool with superabrasives in vitrified bond, segmented or with continuous rim, with or without a hub made from metal or non-metallic material

### 1.2 Application:

Abrasive tool for grinding of various materials

### 1.3 Company identification:

**KREBS & RIEDEL** Schleifscheibenfabrik GmbH & Co. KG

Bremer Straße 44

34385 Bad Karlshafen

GERMANY

Telefon: +49 5672 184 0

Telefax: +49 5672 184 218

E-mail: mail@krebs-riedel.de

### 1.4 Emergency telephone number:

Giftnotrufzentrale (GIZ Nord) +49 (0)551-19240

## 2. Composition / Information on Ingredients

The product typically contains the following ingredients:

	Name	CAS	EG No. (ELINCS/EINECS)	Concentration in %
1	CBN – cubic boron nitride	10043-11-5	233-13-66	40-90
	or			
2	Diamond	7782-40-3	-	40-90
3	Aluminium oxide	1344-28-1	215-691-6	0-40
	or			
5	Silicon carbide	409-21-2	206-991-8	0-40
4	Vitrified bond	-	-	10-35

The product does not contain any ingredients that require marking as per 67/548 EEC and 99/45 EG

## 3. Hazards Identification

Not applicable.

Abrasives are not dangerous substances or preparations as defined in EC directive No 99 / 45 EG.

See also: sections 8 and 16.



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#### 4. First Aid Measures

See also: sections 8 and 16.

**Inhalation:** not possible, due to the form of product  
**Eye contact:** not possible, due to the form of product  
**Skin contact:** no harmful effects known  
**Ingestion:** not likely, due to the form of the product  
If necessary contact physician

#### 5. Fire Fighting Measures

The product is not inflammable

#### 6. Accidental Release Measures

Not applicable

#### 7. Handling and Storage

Follow instructions and relevant national regulations. In addition, observe the safety recommendations of the manufacturer.

#### 8. Exposure Control / Personal Protective Equipment

Before grinding risk assessment should be performed and individual protection measures adopted accordingly

##### 8.1. Exposure limits

Keep limits of the following components under surveillance (Observe official regulations for dust)

	Name	CAS	EG Nr.	Concentration limits (daily average value)
1	CBN	10043-11-5	233-13-66	No limits known
2	Diamond	7782-40-3	-	No limits known
3	Aluminium oxide	1344-28-1	215-691-6	Observe official regulations for dust see section 16
4	Silicon carbide	409-21-2	206-991-8	Observe official regulations for dust see section 16

Note: Hazardous dust of workpiece material may be generated during grinding and/or sanding operation

##### 8.2. Exposure control and limitations

##### 8.2.1. Exposure control and limitations of the work environment

Observe official regulations for dust

##### 8.2.1.1. Respiratory protection:

Use respiratory equipment (type depends on specific application and material being ground)



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**8.2.1.2. Hand protection:**

Wear protective gloves (type depends on specific application and material being ground)

**8.2.1.3. Eye protection:**

Wear protective goggles or face shield (type depends on specific application and material being ground)

**8.2.1.4. Hearing protection:**

Use hearing protection equipment (type depends on specific application and material being ground)

**8.2.1.5. Body protection:**

Use protective clothing (type depends on specific application and material being ground)

## 9. Physical and Chemical Properties

9.1	<b>Physical state:</b>	solid
9.2	<b>Colour:</b>	abrasive layer: yellow, brown, or black, hub: white, pink, grey-brown or metal colored
9.3	<b>Solubility in water:</b>	not soluble

## 10. Stability and Reactivity

**Stability:**

Inorganic bonded abrasives are stable and undergo no reaction when handled or stored.

**Reactivity:**

- 10.1 Conditions to avoid:**  
No decomposition when in normal use.
- 10.2 Materials to avoid:**  
No dangerous chemical reactions known.
- 10.3 Hazardous decomposition products:**  
None.

## 11. Toxicological Information

No toxicological effects if inhaled or swallowed or with eye or skin contact are known  
See also: section 8

## 12. Ecological Information

12.1	<b>Ecotoxicity:</b>	no effects known
12.2	<b>Mobility:</b>	no potentials known
12.3	<b>Persistence und degradability:</b>	no biodegradable potentials known
12.4	<b>Bioaccumulative potential:</b>	no potentials known
12.5	<b>Other hazardous effects:</b>	no effects known



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### 13. Disposal Considerations

**13.1. Product:**

National and local regulations have to be observed.

Due to its ingredients and properties disposal as non hazardous waste (2000/532/EC) is possible, if no hazardous materials have been added to the abrasive in course of its use. (EWC - SN 120121).

**13.2. Packing material:**

National and local regulations have to be observed.

### 14. Transport Information

The product is not affected by international regulations on the transport of dangerous goods.

### 15. Regulatory Information

No specific marking requirements under relevant EC directives.

### 16. Other Information

Research conducted at Institut für Hygiene und Arbeitsmedizin ( Universität Essen) showed no toxic or cancer inducing properties for aluminium oxide. Aluminium oxide was chemically inert.

The above information is based on our current state of knowledge and does not constitute any warranty of properties of the product. This information is not part of any contractual agreement. It remains the user's responsibility to adhere to existing laws and regulations.

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