

**MATERIAL SAFETY DATA SHEET FOR ABRASIVE BONDED GRINDING  
WHEELS ACCORDING TO 91/155 EEC DIRECTIVE**

**IMPORTANT NOTICE:**

Bonded abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific actions to protect the operators. During a grinding operation, 90% or more of the particulates of the dust come from the material being ground and, for wet grinding, from aerosols generated by the grinding fluid. Specific attention must therefore be given to the nature of the part of the fluid and the appropriate protection devices( exhaust...) must be installed.

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product designation:**

**ABRASIVE BONDED POLISHING WHEELS C16 GP/AMB AND C46 GP/AMB**

**Manufacturer/ Supplier:**

GERD EISENBLÄTTER GMBH  
Jeschkenstraße 10  
D-82538 Geretsried  
Tel. (081 71) 5 10 15  
Fax (081 71) 8 16 34



**2 COMPOSITION/ INFORMATION ON INGREDIENTS**

**2.1 ABRASIVE:**

- Synthetic Aluminum Oxide
- Synthetic silicon carbide
- Zirconium oxide + Aluminium oxide
- Others

**2.2. Bond**

- VITRIFIED:
- ORGANIC:
  - Polymerised synthetic resin
  - Rubber
- Others

**2.3 Bond fillers**

- Halogen compounds
- Carbonates
- Oxides
- Sulphur compounds
- Others

**2.4 Reinforcement**

- Glass cloths
- Others

**2.5 Others**

### 3. HAZARD IDENTIFICATION

#### 3.1 Recommendation for marking.

NOT APPLICABLE: The bonded abrasives are not dangerous products.

#### 3.2 Others rules:

NONE

### 4 FIRST AID MEASURES

NOT APPLICABLE WHEN BONDED ABRASIVES PRODUCTS NOT IN USE ON MACHINES.

Following recommendations are basic rules during a grinding operation, they must be completed by 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 for medical service if symptoms persist.  
Eye: Remove from exposure and flush with clean water.  
If symptoms persist, seek medical advice.  
Skin: Remove from exposure: remove contaminated clothing, wash and thoroughly rinse affected area. Seek medical advise if symptoms persist.  
Ingestion: No hazardous effect known, seek medical attention.

### 5 FIRE FITHTING MEASURES.

NONE specific.

### 6 ACCIDENTAL RELEASE MEASURES.

NONE specific.

### 7 HANDLING AND STORAGE

Following recommendations are aimed at preserving the bonded abrasives from damages which may create a risk of rupture when used on a grinding machine.

- Fragile products: handle and store with precautions
- Store at moderate temperature and humidity
- For detailed recomendations refer to the FEPA SAFETY CODE.

### 8 EXPOSURE CONTROL/ PERSONAL PROTECTION

NON APPLICABLE WHEN ABRASIVES ARE HANDLED OR STORED

When using products, refer to grinding machines instructions and to the rules about prevention of professional accidents.

For a safe use of bonded abrasives refer to the FEPA SAFETY CODE.

### 8.1 Personal protective equipment:

For information when using bonded abrasives on a machine:

- Eye protection. Machine guarding and safety goggles or face shield.
- Dust protection. Use of dust mask
- Hand protection: Use of barrier cream or protective gloves.
- Ear protection. Use of ear muffs or equivalent.
- Skin protection: Wear suitable protective clothing.

### 8.2 Hygiene measures:

No specific regulation:

### 8.3 Protection against fire and explosions:

No specific regulations.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical state:	Solid
9.2 Colour:	Variable
9.3 Odour:	Not applicable (May give off non specific odour in use)
9.4 pH.	not applicable
9.5 Change of physical state:	Not applicable
9.6 Density:	depending upon product: 0,8 - 3,5 g/cm <sup>3</sup> .
9.7 Vapour pressure	Not applicable
9.8 Flash point	270°C
9.10 Viscosity:	Not applicable
9.11 Solubility in water	Not defined

## 10 STABILITY AND REACTIVITY

Bonded abrasives are stable and not reactive when handled or stored

### 10.1 Conditions to avoid:

Excessive heat, humidity or thermal shocks which may mechanically weaken the products and create safety or health when used on machines.

### 10.2 Materials to avoid:

Strong acids, strong bases, strong oxidising agents and mineral oils may modify the characteristics of the products and safety or health hazards when used on machines.

### 10.3 Hazardous decomposition products.

NONE

### 10.4 Other indications

NONE



## 11. TOXICOLOGICAL INFORMATION

NOT APPLICABLE WHEN HANDLED OR STORED

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

## 12 ECOLOGICAL INFORMATION

### 12.1 Mobility

When the bonded abrasives are used, the grinding debris are easily retained within fixed machines or with appropriate screens for portable grinding operations.

### 12.2 Persistence and degradability:

Not bio-degradable

### 12.3 Bioaccumulative potential:

Not applicable

### 12.4 Ecotoxicity:

Not applicable.

## 13 DISPOSAL CONSIDERATIONS

According to National and local regulations.

## 14 TRANSPORT

No specific regulations for any type of transportation.

## 15 REGULATORY INFORMATION

EEC Regulation:

NONE

National or local regulations:

Refer to relevant texts

## 16 OTHER INFORMATION

### WARNING!

The above indications are based on the existing practise and do not constitute a guarantee. The laws and regulations must be strictly followed by the users who remain responsible for the use of the bonded abrasive wheels.