



## VOLUNTARY PRODUCT INFORMATION

### 1. Identification of the product and of the company/undertaking

#### 1.1 Product identifier

All tungsten carbide grit cut-off wheels both with round standard as well as with X-LOCK bore hole sold under Robert Bosch Power Tool Accessories.

#### 1.2 Use of the product

##### Relevant identified applications:

Cutting of different materials:  
For instance and not exclusively:  
Wood, wood with nails, plaster, plastics, metal– for detailed information see  
packaging of product

#### 1.3 Details of the supplier of the voluntary product information:

Robert Bosch Power Tools GmbH  
PT/EEI  
70538 Stuttgart / GERMANY  
[www.bosch-pt.com](http://www.bosch-pt.com)

### 2. Hazards identification

#### 2.1 Classification

Not applicable  
Tungsten Carbide Cut-off wheels are articles and not dangerous substances or mixtures according to Regulation (EC) N° 1272/2008.  
See also section 8 and 16.

#### 2.2 Label elements

Tungsten Carbide Cut-off wheels are articles and not dangerous substances or mixtures and therefore no labelling is required according to Regulation (EC) N° 1272/2008.

#### 2.3 Other hazards

Not known.



### 3. Composition / information on ingredients

The product contains the following ingredients which are classified according to Regulation (EC) Nr. 1272/2008 or for which a community occupational exposure limit value exists:

Substance	EC-N°	CAS-N°	REACH Registration N°	Conc. (%)	Classification acc. to Regulation (EC) N° 1272/2008 (CLP)	
					Hazard classes/ hazard categories	Hazard statements

(For full text of H-phrases see section 16)

### 4. First aid measures

See also section 8 and 16.

#### 4.1 Description of first aid measures

Inhalation:	Not possible, due to the form of the product
Eye contact:	Not possible, due to the form of the product
Skin contact:	No harmful effects known
Ingestion:	Not likely, due to the form of the product; if necessary contact physician
Note to physician:	Not available.

#### 4.2 Most important symptoms and effects, both acute and delayed

Not known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Not relevant. Treat symptomatically.

### 5. Fire fighting measures

#### 5.1 Extinguishing media

Extinguishing media: water, foam, sand, powder or CO<sub>2</sub> as appropriate for surrounding materials.



**5.2 Special hazards arising from the product**

Toxic fumes may occur. Use respiratory protective equipment.

**5.3 Advice for fire fighters**

Extinguishing materials should be selected according to the surrounding area.

**6. Accidental release measures**

Not applicable.

**7. Handling and storage**

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

**8. Exposure controls / personal protection**

**8.1 Control parameters**

Before grinding it is recommended to perform a risk assessment and to use personal protection equipment accordingly.

Occupational exposure limit values and/or biological limit values

Keep exposure to the following components under surveillance.  
(Observe also the regional official regulations)

Limit value type (country of origin)	substance	EC-N°	CAS-N°	Occupational limit value				Peak limit	source, remark
				Long term		Short term			
				mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)		

Note: Hazardous dust of the workpiece material may be generated during grinding and/or sanding operations. National regulations for dust exposure limit values have to be taken into consideration.

**8.2 Exposure controls**

8.2.1 Individual protection measures

- 8.2.1.1 Respiratory protection: Use respiratory protective equipment  
(type depends on specific application and material being ground)
- 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



- (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 Information on basic physical and chemical properties

- a) Physical state: solid
- b) Colour: various
- c) Solubility in water: Insoluble

### 9.2 Other information

None.

## 10. Stability and reactivity

### 10.1 Reactivity

Tungsten Carbide Cut-off wheels are stable when handled or stored correctly.

### 10.2 Chemical stability

No decomposition in normal use.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Tungsten Carbide Cut-off wheels are stable when handled or stored correctly.

### 10.5 Incompatible materials

No dangerous reactions known.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## 11. Toxicological information

### 11.1 Incompatible materials

No toxicological effects if inhaled or swallowed or with eye or skin contact are known.

## 12. Ecological information



### **12.1 Toxicity**

No effects known.

### **12.2 Persistence and degradability**

No biodegradable potentials known.

### **12.3 Bioaccumulative potential**

No potentials known.

### **12.4 Mobility in soil**

No potentials known.

### **12.5 Results of PBT and vPvB assessment**

Not relevant.

### **12.6 Other adverse effects**

No effects known.

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### 13.1.1 Product

Follow national and regional regulations.

- Due to the ingredients and properties disposal as non-hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives (EWC – Nr. 120121).

Packing

Follow national and regional regulations.

## **14. Transport information**

The product is not covered by international regulation on the transport of dangerous goods.

## **15. Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the product**

No specific labelling requirements under respective EC directives.



## 15.2 Chemical safety assessment

Not relevant.

## 16. Other Information

### Further informations

#### No EN safety standard available

As no safety standard includes tungsten carbide grit cut-off wheels, Bosch engineering is doing the release and serial delivery qualification as close as possible according to EN 13236 with reference to laser melting diamond cut-off wheel (same bore hole size, same min. core blade thickness, allowed production method, material and hardness requirements of core blade fulfilled).

Bosch engineering does the same safety test (spin test) described in EN 13236. Additionally performance and lifetime tests are done for the release to verify the safety in practical application.

The X-LOCK bore hole I also covered in an analog way by the scope of the EN 13236.

#### EAC certification

EAC certification is indicated on label, packaging and in instruction manual, when applicable.

#### Changes to the previous versions

See sections 1 to 16.

#### Literature and data sources

REACH Regulation (EC) Nr. 1907/2006

Regulation (EC) N° 1272/2008

Directive 98/24/EC

Directive 2000/39/EC

Directive 75/324/EEC

Decision 2000/532/EC

Transport regulations according to ADR, RID und IATA.

#### Hazard statements referred to in section 2 and 3

##### According to Regulation (EC) N° 1272/2008:

The above information is based on our current standard of knowledge, does not constitute any warranty of conditions of the product, and shall be used only as a guide. The information does not form part of any contractual agreement, relates only to the product designated herein, and does not relate to its use in combination with any other material or process. It remains the user's responsibility to adhere existing laws and regulations.

Issued by: PT-AC/PXD-PA1

Contact: Mr. Mathias Biner