

According to Reg. 1907/2006/EC, Reg. 543/2010/EC and Dir. 67/548/EC

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
Product name	RG - FLAP WHEELS ON SHAFT		
Use of the product	Abrasive material for mechanical industry		
Company name:	BIBIELLE S.p.A.		
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2 HAZARDS IDENTIFICATION	
Classification	The product is classified not hazardous according to Reg. 1272/2008/CE and to Dir 67/548/EC
Hazards for Human	No rilevant hazards for human
Hazards for the environment	No rilevant hazards for the environment
Physical or chemical hazards	No rilevant physical or chemical hazards

#### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Material is composed of abrasive powders supported on an inert matrix of nylon by a polymerized synthetic binder

#### Abrasive material

	Substance	Hazard symbol		Classification				% by
Matrix		Reg. 1272/ 2008/CE	Dir. 67/548/CE	Reg. 1272/ 2008/CE	Dir. 67/548/CE	CAS N.	EC N.	weight**
	Corundum* (Al <sub>2</sub> O <sub>3</sub> )					1344-28-1	215-691-6	
Abrasive powders	Silicon carbide (CSi)					409-21-2	206-991-8	30 - 60
	Zirconium dioxide (ZrO <sub>2</sub> )					1314-23-4	215-227-2	

#### Structural support

Structural		Hazard symbol		Classification				% by
Matrix	Matrix component		Dir. 67/548/EC	Reg. 1272/ 2008/EC	Dir. 67/548/EC	CAS N.	EC N.	weight**
Support	Cotton fibres	none				n.a.	n.a.	5 – 10
Support	Polyester fibres	none				n.a.	n.a.	5 – 10
Binder	Polimerized Synthetic Resin	none				n.a.	n.a.	10 - 20
Shaft	Zinc coated stainless steel	none				n.a.	n.a.	5 – 10

\*: Corundum is a natural form of aluminium oxide; it contains small impurities of iron, magnesium and silica

\*\*: any uncertain range concerning % amount of any component does not influence the hazard classification of the material, according to Reference Regulation



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4 FIRST AID MEASURES	
Preamble	Following statements must be taken as base-rules concerning abrasive materials and has to be completed according to safety data sheets of processed materials and process cooling liquid used
General informations	In case of eyes and skin contact, give priority to eyes first aid measures
Eye contact	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
Skin contact	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
Inhalation	Supply fresh air; consult doctor in case of complaints
Swallowing	No negative effects in case of swallowing. Drink water and seek immediate medical advice, showing this MSDS

5 FIRE FIGHTING MEASURES	
Suitable extinguishing agents	$\ensuremath{\text{CO}}_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
Protective equipment	Ordinary protective equipment in case of fire-fighting
Specifical risks	None

# 6 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions	
Measures for environmental protection	n.a.
Measures for cleaning/collecting	

### 7 HANDLING AND STORAGE

Handling	Avoid direct contact using recommended handling safety equipment (see § 8). According to normal use conditions, product does not contain volatile components.
Storage	Keep in cool, dry, ventilated storage in closed original containers. Do not drinking or eating near the storage place.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Risk scenario	Any risk concerning the use in mechanical industry Experimental toxicological data are not available concerning specifical exposure scenarios. Hazard classification of this product was done according to Reg. 1272/2008/EC and other available informations		
Information about design of	Ensure good ventilation/exhaustion at the workplace.		
technical facilities	Safety washing water must be available for skin and eyes		



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		2010	ACGIH		
	IWA [	mg/m°]	TWA [n	ng/mš]	
Substance	Total	Respirable fraction	Inhalable fraction	Respirable fraction	
Silicon carbide	15	5	10	3	
Corundum [Al <sub>2</sub> O <sub>3</sub> ]	15	5			
Zirconium dioxide [as Zr] ACGIH carcinogenicity A4)5 mg/m³ (TWA, ACGIH 2010) 10 mg/m³ (STEL, ACGIH 2010) 5 mg/m³ (TWA, OSHA PEL 2010) 1 mg/m³ (MAK - inhalable fraction)					
Particles not otherwise classified					
In case of brief exposure use respiratory filter device Protection factor: P3					
Safety goggles or face shield					
<u>@</u>					
Protective gloves for che contact time	emical products,	according to stan	dard EN374; mate	erials for long	
Use protective clothes and protective shoes					
Abrasive materials used are inert and cannot cause risks when correctly stored and managed. During use on machineries, they request safety precautions for workers. The most part of powder particles comes from the processed material and eventually from the cooling liquid. Consequently attention and safety precautionary measures on vapours and dusts environmental removing must be applied.					
	Silicon carbide Corundum [Al <sub>2</sub> O <sub>3</sub> ] Zirconium dioxide [as Zr] ACGIH carcinogenicity A4) Particles not otherwise classified In case of brief exposure Protection factor: P3 Protective gloves for che contact time Abrasive materials use managed. During use of most part of powder par cooling liquid. Conseque dusts environmental rem	Substance Total   Silicon carbide 15   Corundum [Al2O3] 15   Zirconium dioxide [as Zr] ACGIH carcinogenicity A4) 5 mg/m³ (TWA, 10 mg/m³ (STEL 5 mg/m³ (TWA, 10 mg/m³ (MAK   Particles not otherwise classified 10 mg/m³ inhala 3 mg/m³ respira   In case of brief exposure use respiratory Protection factor: P3   Safety go   Protective gloves for chemical products, contact time   Use protective classified   Abrasive materials used are inert and managed. During use on machineries, most part of powder particles comes froi cooling liquid. Consequently attention and dusts environmental removing must be a	Substance Total fraction   Silicon carbide 15 5   Corundum [Al2O3] 15 5   Zirconium dioxide [as Zr] ACGIH carcinogenicity A4) 5 mg/m³ (TWA, ACGIH 2010) 10 mg/m³ (STEL, ACGIH 2010) 5 mg/m³ (TWA, OSHA PEL 2010)   Particles not otherwise classified 10 mg/m³ (MAK - inhalable fraction (TWA 3 mg/m³ respirable fraction (TWA 3 mg/m³ respirable fraction (TWA 3 mg/m³ respirable fraction (TWA)   In case of brief exposure use respiratory filter device Protection factor: P3 Safety goggles or face shie   Protective gloves for chemical products, according to stan contact time Use protective clothes and protect   Abrasive materials used are inert and cannot cause r managed. During use on machineries, they request safe most part of powder particles comes from the processed cooling liquid. Consequently attention and safety precauti dusts environmental removing must be applied.	Substance   Total   Respirable fraction   Inhalable fraction     Silicon carbide   15   5   10     Corundum [Al <sub>2</sub> O <sub>3</sub> ]   15   5      Zirconium dioxide [as Zr] ACGIH carcinogenicity A4)   5 mg/m <sup>3</sup> (TWA, ACGIH 2010) 10 mg/m <sup>3</sup> (STEL, ACGIH 2010) 5 mg/m <sup>3</sup> (TWA, OSHA PEL 2010) 1 mg/m <sup>3</sup> (TWA, OSHA PEL 2010) 1 mg/m <sup>3</sup> inhalable fraction (TWA 8 h, ACGIH 2010) 3 mg/m <sup>3</sup> respirable fraction (TWA 8 h, ACGIH 2010) 3 mg/m <sup>3</sup> respirable fraction (TWA 8 h, ACGIH 2010)     In case of brief exposure use respiratory filter device Protection factor: P3   Image: Comparison of the c	

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Solid abrasive material		
Odour	Odourless		
РН	n.a.		
Charge	n.a.		
Boiling point	n.a.		
Melting point	n.a.		
Flash point	n.a.		
Vapour pressure	n.a.		
Water solubility at 20 °C	Not soluble		



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Volatile organic chemicals (VOC)	No volatile chemicals (VOC) are present at detectable level
Ripartition coefficient n-octanol/water	n.a.

10 STABILITY AND REACTIVITY		
Stability	Stable in normal handling and storage conditions	
Conditions/materials to avoid	Keep away from strong oxidizers and electrostatic charges	
Dangerous decomposition products	After overheating and drying, thermical decomposition at $^\circ\text{T}$ > 250 $^\circ\text{C}$ can produce dangerous vapours as carbon dioxide, carbon oxide and nitrogen oxides	

### 11 TOXICOLOGICAL INFORMATIONS

Material is inert on structural matrix. Data are referring to used abrasive components

Carcinogenic effects:	Zirconium is classified in group 4 of ACGIH (see § 16)	
Mutagenic effects:	n.a.	
Acute toxicity	Al <sub>2</sub> O <sub>3</sub> (Corundum): > 5000 mg/Kg - DL50, oral rat CSi (Silicon Carbide): not available data ZrO <sub>2</sub> (biossido di zirconio): > 8800 mg/Kg – DL50, oral, rat	
Chronic toxicity	n.a.	
Skin	Mechanical irritating effects	
Inhalation	Irritating (superior respiratory system). Powders produced during use can cause respiratory irritating effects	
Eyes	Mechanical irritating effects: symptoms can be irritating, reddening, damages o corneal surface, tearing. Powders produced during use can cause eyes irritating effects	
Other negative effects	Other risks can be caused depending on the abrasion process material used	

#### 12 ECOLOGICAL INFORMATIONS

Ecological toxicity	Al <sub>2</sub> O <sub>3</sub> (Corundum): > 100 mg/l – 96 h, salmo trutta (long time acute toxicity) > 100 mg/l – 48 h, daphnia magna (long time acute toxicity) CSi (Silicon carbide): not available data ZrO <sub>2</sub> (Zirconium dioxide): not available data
Mobility	n.a.
Biopersistency	n.a.
Biodegradability	n.a.
Potential of bioaccumulation	n.a.

#### 13 DISPOSAL CONSIDERATIONS

Dispasal recommendation	Recovery if possible.
	Waste and uncleaned packages must be disposed of in accordance with state and local environmental regulations.

# 14 TRANSPORT INFORMATION

	ONU number: n.a.
Transport classification and	ADR/RID: not regulated (road and railway)
regulation	ICAO/IATA: not regulated (air transport)
	IMDG/IMO: nor regulated (maritime transport)



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# 15 REGULATORY INFORMATION

Hazard labelling symbols	None		
Risk statements	None		
Precautionary statements (Dir. 67/548/CE)	S 22	Do not breathe dust	
	S 39	Wear eye/face protection	
Precautionary statements (Reg. 1272/2008/CE)	P 260	Do not breathe dust	
	P 280	Wear protective gloves/eye/face protection	
Other regulation references	mixtures, ameno amending Regula	/EC on classification, labelling and packaging of substances and ding and repealing Directives 67/548/EEC and 1999/45/EC, and ation (EC) No 1907/2006 contains substances classified carcinogenic cat. I or cat. 2	

16 OTHER INFORMATIONS	
H/R – statements (full text) (§ 3)	
Further informations and references	Informations are updated to: Dir. 2009/2/EC - 31° update of Dir. 67/548/EC and according to Reg. 1907/2006/EC, Dir. 2001/58/EC and 1999/45/EC and Reg. 1972/2008/EC Reg. 1272/2008/EC (classification, labelling and packaging of substances and preparations) modifying directives 67/548/EC, 1999/45/EC and Reg. 1907/2006/EC NIOSH: Registry of toxic effects of chemical substances ACGIH: American Conference of Governmental Industrial Hygienists When applicable, according to Reg. 1907/2006/EC - chapter II, all substances used in this preparation where preregistered Product is according to Reg. 1907/2006/EC – title II requirements (registration of substances) Dir. 42/2006/CE (machineries directive): n.a.

### ABBREVIATIONS AND ACRONYMS

LD50	Average letal dose	
TLV - TWA	Threshold Limit Value - Time Weighted Average	
STEL	Short Term Exposure Limit	
OES	Occupational Exposure Standard	
REACH	Registration, Evaluation, Autorisation of Chemicals. Regulation 1907/2008/EC	
ACGIH carcinogenicity A4	Not classifiable as a human carcinogen. Agents which cause cancer that they could be carcinogenic for humans but which cannot be assessed conclusively because of lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories	
n.a.	Not applicable/Not available	

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