

MSDS ID # RAW0011

59243

**DATE OF MSDS** 7/9/2011

**MANUFACTURER** BIBIELLE 103600

**DATE RECEIVED** 11/3/2011

**MATERIAL TYPE** All Surface Conditioning

## MATERIAL SAFETY DATA SHEET

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

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name	SC - SURFACE CONDITIONING
Use of the product	Abrasive material for mechanical industry
Company name:	BIBIELLE S.p.A.
Address:	Via Cuneo, 35 - 12040 Margarita (CN)
Telephone number:	+39 0171 793800
Fax number:	+39 0171 793001
E-mail	bibielle@bibielle.com
Emergency phone number:	+39 0171 793800

### 2. HAZARDS IDENTIFICATION

Classification	The product is classified <b>not hazardous</b> according to Reg. 1272/2008/CE and to Dir 67/548/EC
Hazards for Human	No relevant hazards for human
Hazards for the environment	No relevant hazards for the environment
Physical or chemical hazards	No relevant physical or chemical hazards

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material is composed of abrasive powders supported on a structure of Nylon, cotton/polyester tissue binded by a polymerized synthetic resin

**Abrasive material**

Matrix	Substance	Hazard symbol	Classification	CAS N.	EC N.	% by weight**
Abrasive powders	Corundum* (Al <sub>2</sub> O <sub>3</sub> )	---	---	1344-28-1	215-691-6	20 - 60
	Silicon carbide (CSI)	---	---	409-21-2	206-991-8	

**Structural support**

Matrix	Structural component	Hazard symbol	Classification	CAS N.	EC N.	% by weight**
Support	Nylon Fiber	none	---	n.a.	n.a.	20 - 60
	Cotton/polyester tissue	none	---	n.a.	n.a.	10 - 40
Binder	Polimerized Synthetic Resin	none	---	n.a.	n.a.	10 - 50

\*: 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

## MATERIAL SAFETY DATA SHEET

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### 4 FIRST AID MEASURES

<b>Preamble</b>	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
<b>General informations</b>	In case of eyes and skin contact, give priority to eyes first aid measures
<b>Eye contact</b>	Rinse opened eye for several minutes under running water and seek immediate medical advice, showing this MSDS
<b>Skin contact</b>	Remove contaminated clothes. Immediately wash with water and soap and rinse thoroughly.
<b>Inhalation</b>	Supply fresh air; consult doctor in case of complaints
<b>Swallowing</b>	No negative effects in case of swallowing. Drink water and seek immediate medical advice, showing this MSDS

### 5 FIRE FIGHTING MEASURES

<b>Suitable extinguishing agents</b>	CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam
<b>Protective equipment</b>	Ordinary protective equipment in case of fire-fighting
<b>Specific risks</b>	None

### 6 ACCIDENTAL RELEASE MEASURES

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

### 7 HANDLING AND STORAGE





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

### 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

<b>Risk scenario</b>	Any risk concerning the use in mechanical industry Experimental toxicological data are not available concerning specific exposure scenarios. Hazard classification of this product was done according to Reg. 1272/2008/EC and other available informations			
<b>Information about design of technical facilities</b>	Ensure good ventilation/exhaustion at the workplace. Safety washing water must be available for skin and eyes			
<b>Exposure limit values</b>		OSHA 2010 TWA [mg/m <sup>3</sup> ]		ACGIH 2010 TWA [mg/m <sup>3</sup> ]
	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	--- ---
<i>Particles not otherwise classified</i>	10 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)			

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Respiratory protection	In case of brief exposure use respiratory filter device Protection factor: P3 
Eyes protection	Safety goggles or face shield 
Hands protection	Protective gloves for chemical products, according to standard EN374; materials for long contact time 
Skin protection	Use protective clothes and protective shoes 
Other Informations	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. Follow the local Safety Management standards and instructions

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid abrasive material
Odour	Odourless
PH	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
Volatile organic chemicals (VOC)	No volatile chemicals (VOC) are present at detectable level
Partition 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, thermal decomposition at $T > 250\text{ °C}$ can produce dangerous vapours as carbon dioxide, carbon oxide and nitrogen oxides

## MATERIAL SAFETY DATA SHEET

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### 11 TOXICOLOGICAL INFORMATIONS

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

Carcinogenic effects:	n.a.
Mutagenic effects:	n.a.
Acute toxicity	Al <sub>2</sub> O <sub>3</sub> (Corundum): > 5000 mg/Kg - DL50, oral rat (IUCALD Data Sheet, European Chemical Bureau) CSi (Silicon Carbide): not available data
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 of 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
Mobility	n.a.
Biopersistency	n.a.
Biodegradability	n.a.
Potential of bioaccumulation	n.a.

### 13 DISPOSAL CONSIDERATIONS

Disposal recommendation	Recovery if possible. Waste and uncleaned packages must be disposed of in accordance with state and local environmental regulations.
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### 14 TRANSPORT INFORMATION

Transport classification and regulation	ONU number: n.a. ADR/RID: not regulated (road and railway) ICAO/IATA: not regulated (air transport) IMDG/IMO: not regulated (maritime transport)
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## MATERIAL SAFETY DATA SHEET

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

### 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 260	Wear protective gloves/eye/face protection
Other regulation references	Reg. 1272/2008/EC on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 Product does not contains substances classified carcinogenic cat. 1 or cat. 2	

### 16 OTHER INFORMATIONS

H/R - statements (full text) (§ 3)	---
Further informations and references	<p>Informations are updated to:</p> <p>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</p> <p>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</p> <p>NIOSH: Registry of toxic effects of chemical substances</p> <p>ACGIH: American Conference of Governmental Industrial Hygienists</p> <p>When applicable, according to Reg. 1907/2006/EC - chapter II, all substances used in this preparation where preregistered</p> <p>Product is according to Reg. 1907/2006/EC - title II requirements (registration of substances)</p> <p>Dir. 42/2006/CE (machinerias directive); n.a.</p>

### 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
n.a.	Not applicable/Not available

### DISCLAIMER

THIS PREPARATION MUST BE USED ONLY IN THE PROPER WAY FOR PROPER USE.

THE INFORMATIONS CONTAINED IN THIS MSDS, AS OF THE ISSUE DATA, IS BELIEVED TO BE TRUE AND CORRECT. HOWEVER, THE ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ANY RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT WARRANTY OR GUARANTEE. SINCE THE CONDITIONS OF USE ARE BEYOND THE CONTROL OF OUR COMPANY, IT IS THE RESPONSABILITY OF THE USER TO DETERMINE THE CONDITIONS OF SAFE USE OF THIS PRODUCT

MSDS ID # RAW0028

31458

DATE OF MSDS 6/9/1999

MANUFACTURER DACOME INC Deer 107550

DATE RECEIVED 7/16/2004

MATERIAL TYPE PA631, PA631S, PA635, PS991, PS992, PS999

## Material Safety Data Sheets (MSDS)

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- a. Product Name : Coated Abrasives(PA631, PA631S, PA635, PS991, PS992, PS999)
- b. Name of Manufacture : KOREA ABRASIVE IND.CO.,LTD.
- c. Writer of section : Research and Development part
- d. Writer of name : KIM WOO JIN
- e. Charge of section : General affairs section
- f. Address : 290 GAJWA -4 DONG SEO-KU, INCHON, KOREA.

Yooeuido P.O. Box 915 SEOUL, KOREA.

- g. Telephone Number : 82-32-5804-100
- i. Fax Number : 82-32-5804-199
- j. Date : JUN, 9, 99
- k. Revision No : 0
- l. Revision Date : 0

Post-it* Fax Note	7671	Date	9/16
To	Mr. Michael	From	Dacom.
Co./Dept.		Co.	
Phone #		Phone #	
Fax #	939-359-4969	Fax #	

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

- a. Classification : Mixture
- b. Chemical Name : N/A
- c. Synonym : N/A
- d. Ingredients and composition

RAW0028



Ingredients		Composition	Composition %	CAS NO
Resin	PA631	Phenol Resin	21	-
	PA631S		20	
	PA635		28	
	PS991		20	
	PS992		20	
	PS999		20	
Abrasives	PA631	Al <sub>2</sub> O <sub>3</sub>	22	1344-28-1
	PA631S		21	
	PA635		24	
	PS991		23	
	PS992		23	
	PS999		23	
Filler	PA631	CaCO <sub>3</sub>	14	471-34-1
	PS991	Na <sub>3</sub> AlF <sub>6</sub>	17	-
	PA631S	CaCO <sub>3</sub>	7	471-34-1
	PS992	Na <sub>3</sub> AlF <sub>6</sub>	15	-
	PS999	KBF <sub>4</sub>	10	14075-53-7
	PA635	CaCO <sub>3</sub>	22	471-34-1
Backing Material	PA631	PES	24	-
	PA631S		26	
	PA635		26	
	PS991		25	
	PS992		25	
	PS999		25	
OTHERS	PA631	-	1-2	-
	PA631S			
	PA635			
	PS991			
	PS992			
	PS999			

### 3. HAZARDS IDENTIFICATION

Not Applicable

#### 4. FIRST AID MEASURES

a. Eye Contact

- \* Do not let the victim rub his eyes.
- \* Gently rinse the affected eyes with clean water for at least 15 minutes.
- \* Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

b. Skin Contact

- \* Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible, cutting them off if necessary.
- \* Wash the affected area under tepid running water using a mild soap.

c. Inhalation

Remove the victim from the contamination immediately to fresh air.

d. Ingestion

Not Applicable

#### 5. EXPLOSIVE AND FIRE FIGHTING METHOD

a. Extinguishing media

- \* Dry chemical powder, carbon dioxide, water, foam should be used fires.
- \* Use extinguishing media appropriate to surrounding fire conditions.

#### MEASURES

- a. Toxic gases will form upon combustion.
- b. Apply water from a safe distance to cool and protect surrounding area.
- c. During fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## 6. ACCIDENTAL RELEASE MEASURE

- \* Shut off all sources of ignition.
- \* Carefully sweep up and remove.

## 7. HANDLING AND STORAGE

- a. Keep at temperature at 0°C - 40°C
- b. Keep at humidity at 30-60%
- c. When using do not smoke or food
- d. Avoid rough handling or dropping
- e. Protect against physical damage

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Control parameters : NOT ESTABLISHED
- b. For most conditions, no respiratory protection should be needed : how ever, in dust.
- c. Wear protective eye glasses or chemical safety goggles.
- d. No precautions other than clean body covering clothing should be needed.
- e. As needed, hearing protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- a. Physical state, form : Solid
- b. Color : PA631S, PS992, PS999(Light Brown), PA635(Dark Brown), PA631, PS991(Brown)
- c. Odour : None
- d. Boiling point : Not available
- e. Melting point : Not available
- f. Solubility : 5-6%/25°C
- e. Vapour pressure : Not available

## 10. STABILITY AND REACTIVITY

- a. This material is stable.
- b. Hazardous decomposition and polymerization will not occur.
- c. Decomposition products : Toxic fumes of carbon monoxide, carbon dioxide, sulfur oxides nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

No relevant information found

## 12. ECOLOGICAL EFFECTS

- a. This substance is not biodegradable
- b. This substance is not bioaccumulatable
- c. This substance is not fish toxicity

## 13. DISPOSAL CONSIDERATION

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber

## 14. TRANSPORT INFORMATION

No relevant information

## 15. REGULATORY INFORMATION

The chemical company is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

# 16. OTHER INFORMATION

## a. References

relays

1) Chemical substances of unknown or variable composition complex reaction products and biological material.

if

Common usage is to attach with the

if

A steel fastener is used to attach the

2) Coated abrasives, modern tool of industry.

## b. Other

to single standard for mounting

a) The information herein is given in good faith, but no warranty.

Please consult The KOREA ABRASIVE IND.CO.,LTD. for further information.

b) To the best of knowledge, the information contained herein is accurate. However, neither

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Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

INDUSTRIAL TOOLS

