# 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name</th>
<th>DCR – QUICK-CHANGE SURFACE CONDITIONING DISCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the product</td>
<td>Abrasive material for mechanical industry</td>
</tr>
<tr>
<td>Company name:</td>
<td>BIBIELLE S.p.A.</td>
</tr>
<tr>
<td>Address:</td>
<td>Via Cuneo, 35 - 12040 Margarita (CN)</td>
</tr>
<tr>
<td>Telephone number:</td>
<td>+39 0171 793800</td>
</tr>
<tr>
<td>Fax number:</td>
<td>+39 0171 793001</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:bibielle@bibielle.com">bibielle@bibielle.com</a></td>
</tr>
<tr>
<td>Emergency phone number:</td>
<td>+39 0171 793800</td>
</tr>
</tbody>
</table>

# 2 HAZARDS IDENTIFICATION

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

# 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

<table>
<thead>
<tr>
<th>Abrasive material</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Abrasive powders</strong></td>
<td></td>
</tr>
<tr>
<td>Corundum* (Al₂O₃)</td>
<td>---</td>
</tr>
<tr>
<td>Silicon carbide (CSi)</td>
<td>---</td>
</tr>
<tr>
<td><strong>Structural support</strong></td>
<td></td>
</tr>
<tr>
<td>Nylon Fiber</td>
<td>none</td>
</tr>
<tr>
<td>Cotton/polyester tissue</td>
<td>none</td>
</tr>
<tr>
<td>Polimerized Synthetic Resin</td>
<td>none</td>
</tr>
<tr>
<td>Reinforced nylon or plastic material</td>
<td>none</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Matrix</th>
<th>Substance</th>
<th>Hazard symbol</th>
<th>Classification</th>
<th>CAS N.</th>
<th>EC N.</th>
<th>% by weight**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasive powders</td>
<td>Corundum* (Al₂O₃)</td>
<td>---</td>
<td>---</td>
<td>1344-28-1</td>
<td>215-691-6</td>
<td>20 - 60</td>
</tr>
<tr>
<td>Abrasive powders</td>
<td>Silicon carbide (CSi)</td>
<td>---</td>
<td>---</td>
<td>409-21-2</td>
<td>206-991-8</td>
<td>20 - 60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Matrix</th>
<th>Structural component</th>
<th>Hazard symbol</th>
<th>Classification</th>
<th>CAS N.</th>
<th>EC N.</th>
<th>% by weight**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Support</td>
<td>Nylon Fiber</td>
<td>none</td>
<td>---</td>
<td>n.a.</td>
<td>n.a.</td>
<td>20 - 60</td>
</tr>
<tr>
<td>Support</td>
<td>Cotton/polyester tissue</td>
<td>none</td>
<td>---</td>
<td>n.a.</td>
<td>n.a.</td>
<td>10 - 40</td>
</tr>
<tr>
<td>Binder</td>
<td>Polimerized Synthetic Resin</td>
<td>none</td>
<td>---</td>
<td>n.a.</td>
<td>n.a.</td>
<td>10 - 50</td>
</tr>
<tr>
<td>Locking system</td>
<td>Reinforced nylon or plastic material</td>
<td>none</td>
<td>---</td>
<td>n.a.</td>
<td>n.a.</td>
<td>1 - 20</td>
</tr>
</tbody>
</table>
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

CO\textsubscript{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.

Specific risks

None.

6 ACCIDENTAL RELEASE MEASURES

Person-related safety precautions

Measures for environmental protection

n.a.

Measures for cleaning/collecting

n.a.

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 drink or eat 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 specific exposure scenarios. Hazard classification of this product was done according to Reg. 1272/2008/EC and other available informations.

Information about design of technical facilities

Ensure good ventilation/exhaustion at the workplace. Safety washing water must be available for skin and eyes.

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA 2010 TWA (mg/m\textsuperscript{3})</th>
<th>ACGIH 2010 TWA (mg/m\textsuperscript{3})</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Silicon carbide</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>Corundum [Al\textsubscript{2}O\textsubscript{3}]</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>Particles not otherwise classified</td>
<td>10 mg/m\textsuperscript{3} inhalable fraction (TWA 8 h, ACGIH 2010)</td>
<td>3 mg/m\textsuperscript{3} respirable fraction (TWA 8 h, ACGIH 2010)</td>
</tr>
</tbody>
</table>
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

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, thermal decomposition at T > 250°C can produce dangerous vapours as carbon dioxide, carbon oxide and nitrogen oxides
### 11 TOXICOLOGICAL INFORMATION

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

<table>
<thead>
<tr>
<th>Carcinogenic effects:</th>
<th>n.a.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenic effects:</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

**Acute toxicity**
- **Al₂O₃ (Corundum):** > 5000 mg/Kg - DL50, oral rat (IUCLID 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 INFORMATION

**Ecological toxicity**
- **Al₂O₃ (Corundum):**
  - > 100 mg/l – 96 h, salmo trutta (long term acute toxicity)
  - > 100 mg/l – 48 h, daphnia magna (long term 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.

### 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)
### 15 REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Hazard labelling symbols</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk statements</td>
<td>None</td>
</tr>
</tbody>
</table>

**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**
Product does not contain substances classified carcinogenic cat. 1 or cat. 2

### 16 OTHER INFORMATIONS

**H/R – statements (full text) (§ 3)**
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**Further informations and references**
Informations are updated to:
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 were 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 lethal dose
- **TLV - TWA**: Threshold Limit Value - Time Weighted Average
- **STEL**: Short Term Exposure Limit
- **OES**: Occupational Exposure Standard
- **REACH**: Registration, Evaluation, Authorisation of Chemicals. Regulation 1907/2008/EC
- **n.a.**: Not applicable/Not available

### DISCLAIMER

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