1. Identification of the substance / preparation and of the company

1.1 Identification of the product :
L312T(Velcro, PSA)

1.2 Product Name
Coated abrasives for sanding of materials.

1.3 Company identification :
Company : SUN ABRASIVES CO., LTD
Address : SONGKOG-DONG ANSAN-CITY, KYONGGI-DO, KOREA (425-110)
Phone : +82-31-495-6076 Fax : +82-31-494-6878

2. Hazard Identification

Important notice
Coated abrasives are inert products which do not create any risk when handled or stored. When used on grinding machines they require specific measures to protect the operators. During the 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 grinding fluid. Specific attention must therefore be given to the nature of the part and of the fluid and the appropriate protection devices must be installed.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
<th>Percent (%)</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backing</td>
<td>Polyester</td>
<td>20~ 60</td>
<td>n/a</td>
</tr>
<tr>
<td></td>
<td>Others: Nylon</td>
<td>5 ~ 40</td>
<td>n/a</td>
</tr>
<tr>
<td>Abrasives Grain</td>
<td>Aluminium Oxide</td>
<td>15~ 40</td>
<td>1344-28-1</td>
</tr>
<tr>
<td></td>
<td>Zirconia Alumina</td>
<td>0 ~ 10</td>
<td>68955-26-0</td>
</tr>
<tr>
<td>Bonding Resin</td>
<td>Cured Phenolic Resin</td>
<td>10 ~ 20</td>
<td>9003-35-4</td>
</tr>
<tr>
<td>Filler</td>
<td>Calcium Carbonate</td>
<td>5 ~ 10</td>
<td>16389-88-1</td>
</tr>
<tr>
<td></td>
<td>Metal Soap</td>
<td>13 ~ 17</td>
<td></td>
</tr>
</tbody>
</table>

4. 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.
5. **Fire Fighting Measures**

Toxic fumes may occur. Use respiratory protective equipment.

Extinguishing media: water, foam, sand, powder or CO₂.

6. **Accidental release measures**

Not applicable.

7. **Handling and Storage**

Keep the materials out of direct sunlight.

Do not place the materials on ground and concrete floor.

Avoid humid place and heating element such as heater and radiator.

Keep it in condition of Temperature, 15°C~27°C and Humidity, 40%~50%.

8. **Personal Protection**

Respiratory protection: Use respiratory protective equipment

Hand protection: Wear protective gloves

Eye protection: Wear protective goggles or face shield

Hearing protection: Use hearing protection

Note: Hazardous dust of the work piece material may be generated during grinding and/or sanding operation.

National regulations for dust exposure limit values have to be taken into consideration.

9. **Physical and chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°C)</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>n/a</td>
</tr>
<tr>
<td>Vapor Density (AIR=1)</td>
<td>n/a</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>n/a</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>n/a</td>
</tr>
<tr>
<td>Percent, Volatile by Volume (%)</td>
<td>n/a</td>
</tr>
<tr>
<td>Evaporation rate (Butyl Acetate =1)</td>
<td>n/a</td>
</tr>
<tr>
<td>Appearance and odor</td>
<td>n/a</td>
</tr>
</tbody>
</table>

10. **Stability and Reactivity**

<table>
<thead>
<tr>
<th>Incompatibility (materials to avoid)</th>
<th>Unstable</th>
<th>Condition to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td></td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Decomposition Product</th>
<th>May occur</th>
<th>Condition to Avoid</th>
</tr>
</thead>
</table>
| In use, dust and decomposing odors may be generated. In most cases, the material removed from the workplace will be significantly greater than the coated abrasives components.

Hazardous Decomposition Product: May occur.
Polymerization: **Will not occur**

11. Toxicological Information

No toxicological effects if inhaled or with eye or skin contact are known. See also section 8.

12. Ecological Information

- 12.1 Ecotoxicity: no effects known
- 12.2 Mobility: no potentials known
- 12.3 Persistence and degradability: no biodegradable potentials known
- 12.4 Bioaccumulative potential: no potential known
- 12.5 Other hazardous effects: no effects known

13. Disposal Considerations

Follow national and regional and regulation.

14. Transport Information

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

15. Regulatory Information

No specific issues

16. Other Information

The above information is based on our standard of knowledge and does not constitute any warranty of conditions of the product. The information does not form part of any contractual agreement. It remains the use’s