SAFETY DATA SHEET FOR ORGANIC BONDED ABRASIVES

1. Identification of product and company/undertaking:

Identification of the product:
All organic bonded cutting and grinding discs. (Excepting Type AS36T(X), AS30Alu)

Use of the product:
Cutting and grinding for different materials:
Steel, Stainless steel, Cast iron, non-ferrous metals, Building materials, Natural stone – see name of the item

Company identification:
Company: Vanguard Steel Ltd.
Address: 2160 Meadowpine Blvd
Mississauga, Ontario, L5N 6H6
Canada
Phone: 905-821-1100
Fax: 905-821-2021

2. Hazards Identification
Not applicable.
Abrasives are not dangerous substances or preparations according to directive № 1999/45/EC.
See also section 8 and 16.

3. Composition/Information on Ingredients
The product contains the following marking required ingredients as per 67/548 EEC and 99/45 EC

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>EG Nr. (ELINCS/EINECS)</th>
<th>Concentration area</th>
<th>Classification</th>
<th>H-statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. First Aid Measures
See also section 8 and 16
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
Notes for the physician: Not available
5. Fire Fighting Measures

Toxic fumes may occur. Use respiratory protective equipment.

Extinguishing Media: water, foam, powder, sand, CO₂, as appropriate for surrounding materials

6. Accidental release measures

Not applicable.

7. Handling and Storage

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

8. Exposure Controls / Personal Protection

Before grinding risk assessment should be performed and individual personal protection measures adopted accordingly.

8.1. Exposure Limits

Keep limits of the following components under surveillance
(Observe the regional official regulations)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>EG Nr.</th>
<th>Concentration limits (daily average value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Hazardous dust of 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. Occupational exposure controls
8.2.1.1. Respiratory protection: Use respiratory 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 and machining process)
9. Physical and Chemical Properties

9.1 Physical state: solid
9.2 Colour: ............... 
9.3 Solubility in water: non-soluble

10. Stability and Reactivity

Stability
Bonded Abrasives are stable when handled or stored correctly.

Reactivity
10.1 Conditions to avoid:
No decomposition in normal storage.

10.2 Materials to avoid:
No dangerous reactions known.

10.3 Hazardous decomposition products:
At temperatures exceeding 250° C hazardous or toxic decomposition products may be generated

11. Toxicological Information

No toxicological effects if inhaled or swallowed 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 potentials known
12.5 Other hazardous effects: no effects known

13. Disposal Considerations

13.1. Product
Follow national and regional regulations!

Due to the ingredients (sum concentration under the limit) disposal as non hazardous waste (2000/532/EC) is possible if no hazardous materials are added to the abrasives. (EWC – Nr. 120121),

Due to the ingredients (sum concentration above the limit) disposal as hazardous waste (2000/532/EC) (EWC – Nr. 120120)

13.2. Packing
Follow national and regional regulations!
<table>
<thead>
<tr>
<th>14. Transport Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is not covered by international regulation on the transport of dangerous goods.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15. Regulatory Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>No specific marking requirements under respective EC directives</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16. Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>P281 – use required personal protective equipment</td>
</tr>
</tbody>
</table>

The above information is based on our current 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 user’s responsibility to adhere existing laws and regulations.