SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: ALUMINA/ZIRCONIA OJATED ABRASIVES

TRADE NAME:

HORIZON - GRP CODES: AXX, BXX, BXX, RXZ, ZYXX

MANUFACTURER(4):
SAINT-GOBAIN ABRASIVES, INC.

ONENEWBONDSTREET
WORCESTER, MA01615-0008

(508) 795-5000

REVISION DATE: 6/15/2009

MSDS PRINT FORMAT: US

NORTON USA FORMAT MSDS: NZCAT001

NORTON

MATERIAL SAFETY DATA SHEET

PART#: 78072728617

MSDS NO.: NZCAT001 OUTBOUND

ALUMINA/ZIRCONIA OJATED ABRASIVES

DATE PRINTED: JUN 16, 2009

SECTION 2. COMPOSITION/INFORMATION ON EXCIPIENTS

SUBSTANCE DESCRIPTION

PERCENT

ALUMINUM OXIDE, NON-FIBROUS

15.000 - 26.000

CLOTH OR PAPER BACKING

45.000 - 55.000

Binder System**

10.000 - 30.000

N/A

Inorganic Fluorides**

1.000 - 5.000

NA

Zirconium

20.000 - 30.000

7440-66-7

** Substance is a compound and/or mixture

SECTION 3. HAZARDS IDENTIFICATION

Inhalation Acute Exposure Effects:
Dust may be slightly irritating to eyes and respiratory tract at high concentrations.

Inhalation Chronic Exposure Effects:

SECTION 4. FIRST AID MEASURES

SECTION 5. FIRE FIGHTING MEASURES

SECTION 6. ACCIDENTAL RELEASE MEASURES

SECTION 7. HANDLING AND STORAGE

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10. STABILITY AND REACTIVITY

SECTION 11. TOXICOLOGICAL INFORMATION

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

SECTION 14. INCOMPATIBILITY
SECTION 14. TRANSPORT INFORMATION

HAZARD CLASS:
This product is not hazardous as defined by the Department of Transportation. (USA)
This product is "not regulated" under the Transportation of Dangerous Goods Act. (CAN)

SECTION 15. REGULATORY INFORMATION

EXPOSURE LIMITS/REGULATORY INFORMATION:

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide, Non-Fibrous</td>
<td>15.0000</td>
<td>10.0000</td>
<td>10.0000</td>
</tr>
<tr>
<td>Cloth or Paper Backing</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Binder System</td>
<td>0.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
<tr>
<td>Inorganic Fluorides</td>
<td>2.5000</td>
<td>2.5000</td>
<td>2.5000</td>
</tr>
<tr>
<td>Zirconium</td>
<td>5.0000</td>
<td>0.0000</td>
<td>0.0000</td>
</tr>
</tbody>
</table>

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS:
CA Prop 65: Not Applicable
TSCA Section 8(b) - Inventory Status:
All components of this product are registered under the regulations of the Toxic Substance Control Act.
Domestic Substance List:
All components of this product are found on the domestic substance list.

SECTION 16. OTHER INFORMATION

DISCLAIMER:
The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, the company makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

KEY TO ABBREVIATIONS:
EQ=Equal
LT=Less Than
GT=Greater Than
AP=Approximately
TR=Trace
ND=No Data Available