Dear Customer:

Enclosed is the REVISED Material Safety Data Sheet for our product:

**DME Abrasive Sheets – "ABW" type**

The products we distribute are not normally hazardous in their natural state. However, steel does contain elements deemed by OSHA to be hazardous when released by manufacturing, such as brazing, burning, grinding, sawing or welding, etc. Failure to control dust and fumes can result in chronic health problems.

We believe the information, supplied by the Manufacturer, on the enclosed MSDS to be accurate; however, DME makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability for the information so presented.

Should you require additional information, please call or write the Manufacturer listed on the MSDS.

Sincerely yours,

DME Company
Director of Operations
Ken Jasina

Revised: October, 2011
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

NFPA

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Coated Abrasive</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDS Manufacturer</td>
<td>9B3597_CA_All</td>
</tr>
<tr>
<td>Number:</td>
<td></td>
</tr>
<tr>
<td>Manufacturer Name:</td>
<td>Saint-Gobain Abrasives, Inc.</td>
</tr>
<tr>
<td>Address:</td>
<td>1 New Bond Street</td>
</tr>
<tr>
<td></td>
<td>Worcester, MA 01615</td>
</tr>
<tr>
<td>General Phone Number:</td>
<td>508-795-5900</td>
</tr>
<tr>
<td>Emergency Phone Number:</td>
<td>508-795-5900</td>
</tr>
<tr>
<td>Website:</td>
<td><a href="http://www.sgabrasives.com">www.sgabrasives.com</a></td>
</tr>
<tr>
<td>MSDS Creation Date:</td>
<td>December 15, 2010</td>
</tr>
<tr>
<td>MSDS Revision Date:</td>
<td>May 19, 2011</td>
</tr>
</tbody>
</table>

HMIS

| Health Hazard | 1 |
| Fire Hazard   | 0 |
| Reactivity    | 0 |
| Personal Protection | X |

* Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
<th>EC Num.</th>
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</thead>
<tbody>
<tr>
<td>Silicon carbide</td>
<td>409-21-2</td>
<td>10.0 - 30 by weight</td>
<td>206-991-8</td>
</tr>
<tr>
<td>Urea-formaldehyde polymer</td>
<td>9011-05-6</td>
<td>10.0 - 30 by weight</td>
<td></td>
</tr>
<tr>
<td>Paper - Processed Cellulose</td>
<td>9004-34-6</td>
<td>30.0 - 60 by weight</td>
<td>232-674-9</td>
</tr>
</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Dust may cause slight irritation.

Skin: Dust from this product may cause temporary mechanical irritation.

Inhalation: Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract.

Ingestion: Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

Chronic Health Effects: Chronic health effects are not expected as long as good hygiene and proper safety precautions are practiced.

Urea-formaldehyde polymer
Chronic Health Effects: For products containing Urea/Formaldehyde resin, dust generated from intended use may contain trace amounts of formaldehyde which under excessive exposure may cause skin sensitization and airway obstruction.

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation: If dust from cutting or drilling is inhaled, remove the affected person to fresh air. If symptoms persist, get medical attention.

Ingestion: Accidental ingestion of this material is unlikely. If this does occur, wash person for several days to make sure intestinal blockage does not occur. If symptoms persist, call a physician.

Note to Physicians: No information available.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties: Non Flammable.

Flash Point: Does not apply.

Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive Limit: Not available.

Upper Flammable/Explosive Limit: Not available.

Extinguishing Media: Use any extinguishing media appropriate for the surrounding fires.

 Unsuitable Media: None.

Protective Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Ratings:

NFPA Health: 1

NFPA Flammability: 0

NFPA Reactivity: 1

NFPA Other:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Methods for containment: Containment of this material should not be necessary.

Methods for cleanup: Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Evaluate residue to determine if it is a hazardous waste by characteristic. Dispose of in accordance with Local, State, Federal and Provincial regulations.

SECTION 7 - HANDLING and STORAGE

Handling: Handle with adequate ventilation for nuisance dust.

Storage: No special storage conditions required.

Hygiene Practices: Wear suitable gloves and eye/face protection.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES
Engineering Controls: General dilution ventilation and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Eye/Face Protection: Always WEAR SAFETY GLASSES or some type of eye protection when grinding.

Skin Protection Description: Protective gloves. Long sleeved shirt and long pants.

Respiratory Protection: When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators. A properly fitted NIOSH approved disposable N 95 type dust respirator or better is recommended.

Other Protective: Use of this product may create elevated sound levels. Hearing protection should be worn where required (see OSHA 29 CFR 1910.134 and other applicable regulations).

**EXPOSURE GUIDELINES**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Guideline OSHA</th>
<th>Guideline NIOSH</th>
<th>Guideline ACGIH</th>
<th>Quebec Canada</th>
<th>Ontario Canada</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon carbide</td>
<td>PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)</td>
<td>TLY-TWA: 10 mg/m3 Inhalable fraction (I) TLY-TWA: 3 mg/m3 Respirable fraction (R) TLY-TWA: 0.1 f/cc Respirable fraction (R)</td>
<td>VEMP-TWA: 10 mg/m3 Total particulate/dust (T)</td>
<td>VEMP-TWA: 10 mg/m3 Total particulate/dust (T)</td>
<td>OEL-TWAEV: 10 mg/m3 Total particulate/dust (T) OEL-TWAEV: 3 mg/m3 Respirable fraction (R) OEL-TWAEV: 10 mg/m3 Inhalable fraction (I) OEL-TWAEV: 0.1 f/cc Respirable fraction (R)</td>
</tr>
<tr>
<td>Paper - Processed Cellulose</td>
<td>PEL-TWA: 15 mg/m3 Total particulate/dust (T) PEL-TWA: 5 mg/m3 Respirable fraction (R)</td>
<td>REL-TWA: 10 mg/m3 Total particulate/dust (T) REL-TWA: 5 mg/m3 Respirable fraction (R)</td>
<td>TLY-TWA: 10 mg/m3</td>
<td>VEMP-TWA: 10 ppm Total particulate/dust (T)</td>
<td>OEL-TWAEV: 10 mg/m3 Total particulate/dust (T)</td>
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<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Mexico</th>
<th>British Columbia Canada</th>
<th>Alberta Canada</th>
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</thead>
<tbody>
<tr>
<td>Silicon carbide</td>
<td>LMP-PPT: 10 mg/m3</td>
<td>OEL-TWA: 10 mg/m3 Inhalable fraction (I) OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 0.1 f/cc Respirable fraction (R)</td>
<td>OEL-TWA: 10 mg/m3</td>
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<tr>
<td></td>
<td>LMP-CT: 20 mg/m3</td>
<td></td>
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<tr>
<td>Paper - Processed Cellulose</td>
<td>LMP-PPT: 10 mg/m3</td>
<td>OEL-TWA: 3 mg/m3 Respirable fraction (R) OEL-TWA: 10 mg/m3 Total particulate/dust (T)</td>
<td>OEL-TWA: 10 mg/m3</td>
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<tr>
<td></td>
<td>LMP-CT: 20 mg/m3</td>
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</tbody>
</table>

**SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

- **Physical State Appearance:** Solid article.
- **Odor:** Odorless
- **Flash Point:** Does not apply.
- **Auto Ignition Temperature:** Not determined.

**SECTION 10 - STABILITY and REACTIVITY**

- **Chemical Stability:** Stable under normal conditions.
Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to Avoid: Keep away from heat, sparks, or open flame.

Special Decomposition Products: In use, dust and decomposing odors may be generated. Thermal decomposition may produce trace amounts of phenol and formaldehyde. In most cases, the material removed from the workplace will be significantly greater than the grinding wheel components. Coolants may produce other decomposition products.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity: This product has not been tested for its toxicity.

Silicon carbide:

RTECS Number: VW0450000

Inhalation: No Data

Urea-formaldehyde polymer:

RTECS Number: YU1610000

Eye: Eye - Rabbit Standard Draize test: 100 uL/24H [severe] (RTECS)

Skin: Administration onto the skin - Rabbit Standard Draize test: 500 mg/24H [severe]

Inhalation: Inhalation - Rat LC50: >167 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50: 8394 mg/kg [Details of toxic effects not reported other than lethal dose value]

Paper - Processed Cellulose:

RTECS Number: FJ5591460

Inhalation: Inhalation - Rat LC50: >5800 mg/m3/4H [Details of toxic effects not reported other than lethal dose value] (RTECS)

Ingestion: Oral - Rat LD50: >5 gm/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Use standard landfill methods consistent with applicable Federal, State, Provincial and local laws.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Not regulated as hazardous material for transportation.

DOT UN Number: Not regulated as hazardous material for transportation.

IATA Shipping Name: Not regulated as hazardous material for transportation.

Canadian Shipping Name: This product is Not Regulated under the Transportation of Dangerous Goods Act. (CAN)

SECTION 15 - REGULATORY INFORMATION
### Inventory Status

<table>
<thead>
<tr>
<th></th>
<th>EINRCS Number</th>
<th>Canada DSL</th>
<th>TSCA Inventory Status</th>
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</thead>
<tbody>
<tr>
<td>Silicon carbide</td>
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<tr>
<td>Urea-formaldehyde</td>
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<td>Listed</td>
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<tr>
<td>polymer</td>
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<tr>
<td>Paper - Processed</td>
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</tr>
<tr>
<td>Cellulose</td>
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<td></td>
<td></td>
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</table>

#### Silicon carbide:
- EC Number: 206-991-8

#### Paper - Processed Cellulose:
- EC Number: 232-674-9

### State Right To Know

<table>
<thead>
<tr>
<th></th>
<th>PA</th>
<th>MA</th>
</tr>
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<tbody>
<tr>
<td>Silicon carbide</td>
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<tr>
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<td>Listed</td>
</tr>
<tr>
<td>Cellulose</td>
<td></td>
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</tbody>
</table>

### SECTION 16 - ADDITIONAL INFORMATION

- HMIS Health Hazard: 1
- HMIS Fire Hazard: 0
- HMIS Reactivity: 0
- HMIS Personal Protection: X
- MSDS Creation Date: December 15, 2010
- MSDS Revision Date: May 19, 2011