Dear Customer:

Enclosed in the **REVISED** Material Safety Data Sheet for our product:

**DME CUT OFF WHEEL**

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, D-M-E 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,

D-M-E Company
Director of Operations
Ken Jasina

Revised: December, 1999
RESINOID ALUMINUM OXIDE
ABRASIVE PRODUCTS

CHEMICAL FAMILY:
OXIDE
RESIN

FORMULA:
ALUMINUM OXIDE, (SOMETIMES UP TO 40% ZIRCONIA IS SUBSTITUTED FOR ALUMINA) CURED PHENOLIC AND OTHER CURED RESINS

SECTION 11 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS#</th>
<th>%</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALUMINUM OXIDE</td>
<td>1344-28-1</td>
<td>+50%</td>
<td>10 MG/CU.M</td>
</tr>
<tr>
<td>ZIRCONIUM OXIDE</td>
<td>409-21-2</td>
<td>+4%</td>
<td>5 MG/CU.M</td>
</tr>
<tr>
<td>CURED RESIN</td>
<td>NA</td>
<td></td>
<td>10 MG/CU.M</td>
</tr>
</tbody>
</table>

MAY CONTAIN ONE OR MORE OF THE FOLLOWING:

- GRAPHITE 7782-45-5 +1% 15MG/CU.M
- SULFUR 7704-34-9 +1% 10MG/CU.M
- SARAN 75-35-5 +1% 20MG/CU.M
- ALUMINUM POWDER 7429-90-5 +1% 10MG/CU.M
- COPPER POWDER 7440-50-8 +1% 1MG/CU.M
- BARYTES 7727-43-7 +1% 10MG/CU.M
- CRYOLITE 15096-52-3 +1% 2.5MG/CU.M
- PYRITE (FEs) NA +1% 2MG/CU.M
- LIME 1305-78-8 +1% 2MG/CU.M
- WOLLASTONITE 1344-95-2 +1% 10MG/CU.M
- GLASS MESH NA +1% 10MG/CU.M
- DPR RUBBER 78-79-5 +1% NA

SECTION 111 - PHYSICAL DATA

- BOILING POINT (DEG F): NA
- SPECIFIC GRAVITY (H2O=1): VARIES
- VAPOR PRESSURE (MM HG): NA
- PERCENT VOLATILES BY VOLUME (%): 0
- VAPOR DENSITY (AIR=1): NA
- EVAPORATION RATE (- - - - - - - -1): NA
- SOLUBILITY IN WATER: NOT SOLUBLE
- APPEARANCE AND ODOR: SOLID, VARIOUS GRAY AND BROWN COLORS, ODORLESS

NOTE: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SPECIFIED IN SECTION 313 OF SARA TITLE 111 AND 40C-CFR 372
SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: none
Vapor Pressure: none
Vapor Density: none
Specific Gravity: 2.0 - 5.0
Melting Point: none
Evaporation Rate: none
Solubility in Water: none
Appearance and Odor: Gray, brown, reddish brown, black. May give off rubber odor in use.

SECTION IV: FIRE AND EXPLOSION DATA

Flash Point: none
Extinguishing Media: will not burn
Special Fire Fighting Procedures: none
Unusual Fire and Explosion Hazards: none

SECTION V: REACTIVITY DATA

Stability: Stable
Conditions to Avoid: Overspeed and unsafe use practices
Hazardous Polymerization: Does not occur
Hazardous Decomposition: Dusts are generated by use. Use of coolants may produce other decomposition products.

SECTION VI: HEALTH HAZARD DATA

Inhalation: Prolonged exposure to grinding dust may cause respiratory problems or aggravate existing conditions.

Ingestion: No known adverse effects.

Skin: Excessive contact with dust may cause skin irritation. Wash affected areas with soap and water and obtain medical assistance.

Eyes: Dusts generated during grinding may irritate eyes. Flush with large quantities of water and obtain medical assistance.

Other: Cutting operations may generate high noise levels. Sufficient ear protection should be sought if this condition exist.
SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: Use normal cleanup procedures. No special precautions required.

Waste Disposal: Landfill in accordance with local, state, and federal regulations.

Handling & Storage: Refer to ANSI Code B7.1

SECTION VIII: SPECIAL PRECAUTIONS

Respirator Protection: Approved dust respirators recommended if TLV is exceeded.

Ventilation: Local exhaust ventilation as necessary to keep dust levels below TLV.

Protective Gloves: As desired.

Eye Protection: Goggles or safety glasses with side shields are recommended.

Hearing Protection: As needed.

Other Precautions: Maintain good hygienic practices.

Allied Abrasives & Tools
320 West First Avenue
Roselle, N.J. 07203
908-245-2231

2/24/97