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DIVISION: ABRASIVE SYSTEMS DIVISION
TRADE NAME: SCOTCH-BRITE(TM) Handpads - 5440, 6444, 6448, 7440, 7446, 7447, 7448, 7449, 7777, 8447
ISSUED: MARCH 3, 1997
SUPERSEDES: NOVEMBER 5, 1996
DOCUMENT: 06-5461-6

1. INGREDIENT
<table>
<thead>
<tr>
<th>C.A.S. NO.</th>
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<tr>
<td>SILICON CARBIDE OR 409-21-2</td>
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<td>ALUMINUM OXIDE 1344-28-1</td>
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<td>CURED ADHESIVE Unknown</td>
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<td>NYLON FIBERS OR WEB Unknown</td>
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<tr>
<td>CALCIUM CARBONATE 1317-65-3</td>
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</table>

2. PHYSICAL DATA
   BOILING POINT: N/A
   VAPOR PRESSURE: N/A
   VAPOR DENSITY: N/A
   EVAPORATION RATE: N/A
   SOLUBILITY IN WATER: N/A
   SP. GRAVITY: N/A
   PERCENT VOLATILE: N/A
   pH: N/A
   VISCOSITY: N/A
   MELTING POINT: N/A
   APPEARANCE AND ODOR: Nonwoven fibrous handpad impregnated with abrasive particles which are bonded together with cured resinous binders.

3. FIRE AND EXPLOSION HAZARD DATA
   FLASH POINT: N/A
   FLAMMABLE LIMITS - LEL: N/A
   FLAMMABLE LIMITS - UEL: N/A
   AUTOIGNITION TEMPERATURE: N/A
   EXTINGUISHING MEDIA:
   Water, Carbon dioxide, Dry chemical, Foam
   SPECIAL FIRE FIGHTING PROCEDURES:
   Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately
3. FIRE AND EXPLOSION HAZARD DATA (continued)

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Not applicable.
NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Not applicable.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
No hazardous decomposition products are expected during normal use of this product. However, during flaming conditions or excessive heating the following may be emitted: carbon monoxide, carbon dioxide, oxides of nitrogen, cyanides, formaldehyde

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Not applicable.

RECOMMENDED DISPOSAL:
Incinerate in an industrial or commercial facility. Dispose of waste product in a sanitary landfill.

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:
Volatile Organic Compounds: N/A.
VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:
FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:
Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:
Wash affected area with soap and water.

INHALATION:
If signs/symptoms occur, remove person to fresh air. If

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6. SUGGESTED FIRST AID (continued)

Signs/symptoms continue, call a physician.

IF SWALLOWED:
Not applicable.

OTHER FIRST AID:
All first aid statements refer to exposure of dust created by cutting, sanding or grinding.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:
Wear safety glasses with side shields.

Use protective glasses and/or face shield as recommended in ANSI Standard Z87.1.

SKIN PROTECTION:
Not applicable.

VENTILATION PROTECTION:
Provide appropriate local exhaust for grinding, cutting or sanding cured material. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Use particulate collection systems.

RESPIRATORY PROTECTION:
Avoid breathing of dust created by cutting, sanding or grinding.
Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator, full-face dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:
Do not ingest.

RECOMMENDED STORAGE:
Not applicable.

FIRE AND EXPLOSION AVOIDANCE:
Not applicable.

EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>VALUE</th>
<th>UNIT</th>
<th>TYPE AUTH</th>
<th>SKIN*</th>
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<tbody>
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<td>TWA</td>
<td>ACGIH</td>
</tr>
<tr>
<td>SILICON CARBIDE OR</td>
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<td>mg/m³</td>
<td>TWA</td>
<td>OSHA</td>
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<td>TWA</td>
<td>CMRG</td>
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</table>

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7. PRECAUTIONARY INFORMATION

EXPOSURE LIMITS

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</tr>
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<tbody>
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<td>TWA</td>
<td>OSHA</td>
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<tr>
<td>ALUMINUM OXIDE</td>
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<td>mg/m^3</td>
<td>TWA</td>
<td>OSHA</td>
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<tr>
<td>CURED ADHESIVE</td>
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<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>NYLON FIBERS OR WEB</td>
<td>NONE</td>
<td>NONE</td>
<td>TWA</td>
<td>ACGIH</td>
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<tr>
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</table>

* SKIN NOTATION: Listed substances indicated with "YN" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:
- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level
- OSHA: Occupational Safety and Health Administration
- CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:
Eye contact is not expected to occur during normal use of the product.

Mechanical eye irritation: signs/symptoms can include irritation, redness, scratching of the cornea and tearing.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation.

SKIN CONTACT:
No adverse health effects are expected from skin contact.

Mechanical skin irritation: signs/symptoms can include itching and redness.

INHALATION:
No adverse health effects are expected from inhalation exposure.

Dust from cutting, grinding, sanding or machining may cause

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MATERIAL SAFETY DATA SHEET

3M

MSDS: SCOTCH-BRITE™ Handpads - 5440, 6444, 6448, 7440, 7446, 7447, 7448, 7449, 7777, 8447
MARCH 3, 1997

8. HEALTH HAZARD DATA (continued)

irritation of the respiratory system.

IF SWALLOWED:
Ingestion is not a likely route of exposure to this product.

OTHER HEALTH HAZARD INFORMATION:
This product, when used under reasonable conditions or in accordance with the 3M directions for use, should not present a health and safety hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

SECTION CHANGE DATES

HEADING SECTION CHANGED SINCE NOVEMBER 5, 1996 ISSUE

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