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MILWAUKEE

MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200.
THIS STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS

IDENTITY (AS USED ON LABEL AND LIST): NICKEL CADMIUM BATTERY PACKS

NOTE:
BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

SECTION I

MANUFACTURER'S NAME: MILWAUKEE ELECTRIC TOOL CORPORATION
ADDRESS (NUMBER, STREET): 13135 WEST LISBON ROAD
(CITY, STATE, AND ZIP CODE): BROOKFIELD, WISCONSIN 53005

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300

CONTACT TELEPHONE NUMBER FOR TECHNICAL INFORMATION: 262-781-3600 OR 1-800-729-3878 (1-800-SAWDUST)

DATE PREPARED: MAY 2004
### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

#### HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY, COMMON NAME(S)):

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% BY WEIGHT</th>
<th>OSHA REG. Y/N</th>
<th>OSHA CAS #</th>
<th>OSHA PEL</th>
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<tbody>
<tr>
<td>CADMIUM</td>
<td>0-26</td>
<td>Y</td>
<td>7440-43-9</td>
<td>.005 TWA</td>
</tr>
<tr>
<td>CADMIUM HYDROXIDE</td>
<td>3-26</td>
<td>Y</td>
<td>21041-95-2</td>
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<tr>
<td>NICKEL (POWDER)</td>
<td>8-17</td>
<td>N/A</td>
<td>7440-02-0</td>
<td>1 TWA</td>
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<td>NICKEL HYDROXIDE</td>
<td>0-12</td>
<td>N/A</td>
<td>12054-48-7</td>
<td>1 TWA</td>
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<tr>
<td>POTASSIUM OR SODIUM HYDROXIDE</td>
<td>0-4</td>
<td>N/A</td>
<td>1310-58-3</td>
<td>2 CEILING</td>
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<td>LITHIUM HYDROXIDE</td>
<td>&gt;/=0.4</td>
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<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>NICKEL OXIDE HYDROXIDE</td>
<td>1.12</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>NON-HAZARDOUS MATERIALS</td>
<td>BALANCE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### INGREDIENT                           | ACGIH TLV | CALIFORNIA PROP 65 REG. Y/N | IARC/NTP Y/N |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CADMIUM</td>
<td>.05 TWA</td>
<td></td>
<td>Y</td>
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<tr>
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</tr>
<tr>
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<td>1 TWA</td>
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<tr>
<td>NICKEL OXIDE HYDROXIDE</td>
<td>N/A</td>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### DOT HAZARD CLASSIFICATION: NON-HAZARDOUS

### SARA TITLE III SECTION 313:

This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

### HMIS(R*) RATING NUMBERS:

- HEALTH: N/A
- FLAMMABILITY: N/A
- REACTIVITY: N/A
- PERSONAL PROTECTION: N/A

### HAZARD RATINGS:

- 0 = MINIMUM HAZARD
- 1 = SLIGHT HAZARD
- 2 = MODERATE HAZARD
- 3 = SERIOUS HAZARD
- 4 = SEVERE HAZARD
- A = GOGGLES
- B = GOGGLES + GLOVES
**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

- **BOILING POINT:** >392 DEG. F
- **SPECIFIC GRAVITY (H2O=1):** >2.6
- **VAPOR PRESSURE (MM/HG.):** N/A
- **MELTING POINT:** N/A
- **VAPOR DENSITY (AIR=1):** N/A
- **EVAPORATION RATE:** N/A
- **SOLUBILITY IN WATER:** SLIGHTLY SOLUBLE (ELECTROLYTE)
- **APPEARANCE AND ODOR:** SOLID SEALED IN A CASE

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

- **FLASH POINT (METHOD USED):** N/A
- **FLAMMABLE LIMITS:** N/A
  - LEL: N/A
  - UEL: N/A
- **EXTINGUISHING MEDIA:** WATER, CO2
- **SPECIAL FIRE FIGHTING PROCEDURES:** N/A
- **UNUSUAL FIRE AND EXPLOSION HAZARDS:**
  EXPOSURE TO TEMPERATURES ABOVE 212 DEG. F CAN CAUSE EVAPORATION OF THE LIQUID CONTENT OF THE POTASSIUM HYDROXIDE ELECTROLYTE RESULTING IN RUPTURE OF THE CELL. POTENTIAL FOR EXPOSURE TO CADMIUM FUMES DURING FIRE; USE SELF-CONTAINED BREATHING APPARATUS.

**SECTION V - REACTIVITY DATA**

- **STABILITY:**
  - UNSTABLE ( )
  - STABLE (X)
- **CONDITIONS TO AVOID:** HEAT, OPEN FLAMES, SPARKS, MOISTURE.
- **INCOMPATIBILITY (MATERIAL TO AVOID):**
  - ACIDS, ALDEHYDES, AND CARBONATE COMPOUNDS.
- **HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** OXIDES OF CADMIUM AND NICKEL
- **HAZARDOUS POLYMERIZATION:**
  - MAY OCCUR ( )
  - STABLE (X)
- **CONDITIONS TO AVOID:** N/A

**SECTION VI - HEALTH HAZARD DATA**
ROUTE(S) OF ENTRY: DURING NORMAL USE

INHALATION?
N/A

SKIN?
N/A

INGESTION?
N/A

HEALTH HAZARDS (ACUTE AND CHRONIC):
N/A DURING NORMAL USE. THE ELECTROLYTE MAY CAUSE SKIN OR EYE IRRITATION.

SIGNS AND SYMPTOMS OF EXPOSURE:
The electrolyte may cause skin or eye irritation. Flush immediately with water.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A DURING NORMAL USE.

EMERGENCY AND FIRST AID PROCEDURES:
If electrolyte contacts skin or eyes, flush area with clean water.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED IF SPILLED:
Spill and leaks are unlikely. If disassembled avoid contact with skin and eyes.

WASTE DISPOSAL METHOD:
Cadmium batteries are hazardous waste and should be disposed of according to federal, state, and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Never short circuit cells. Personal injury and fire may result.

OTHER PRECAUTIONS:
If battery contents are released, do not touch spilled material. Take up with sand or other absorbent and place in container for disposal as a hazardous waste per federal, state, and local regulations.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): UNNECESSARY DURING NORMAL USE.

VENTILATION:
LOCAL EXHAUST: N/A
MECHANICAL: N/A
SPECIAL: N/A
OTHER: N/A

PROTECTIVE GLOVES: N/A DURING NORMAL USE.

EYE PROTECTION: N/A DURING NORMAL USE.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK/HYGIENIC PRACTICES: N/A
THE INFORMATION AND RECOMMENDATIONS SET FORTH ARE MADE IN GOOD FAITH AND
BELIEVED TO BE ACCURATE AS OF THE DATE OF PREPARATION. MILWAUKEE ELECTRIC
TOOL CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE
ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

LEGEND:
Y - YES
N - NO
N/A - NOT APPLICABLE

REVISION DATE: MAY 2004

METCO P/N: 58-97-1185