SECTION I - PRODUCT IDENTIFICATION

Manufacturer: Weartech International Inc.
Address: 1177 N. Grove St., Anaheim, CA 92806
Emergency Phone: (714) 683-2430
Product Class: Cobalt Base Alloy
Trade Name: Weartech Alloy 12, WT-12
Form: Cast Rods, Powders, Mig Wires & Electrodes

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Per Cent</th>
<th>Concentration</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Co Cobalt</td>
<td>7440-48-4</td>
<td>55.3</td>
<td>30-60%</td>
<td>0.05</td>
<td>0.1</td>
</tr>
<tr>
<td>Cr Chromium</td>
<td>7440-47-3</td>
<td>29</td>
<td>15-40%</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>W Tungsten</td>
<td>7440-33-7</td>
<td>8</td>
<td>5-10%</td>
<td>5 (10 STEL)</td>
<td>5</td>
</tr>
<tr>
<td>Fe Iron (PEL/TLV as Iron Oxide)</td>
<td>7439-89-6</td>
<td>2</td>
<td>1-5%</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Ni Nickel</td>
<td>7440-02-0</td>
<td>2</td>
<td>1-5%</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>C Carbon</td>
<td>7440-44-0</td>
<td>1.4</td>
<td>1.5-1.5%</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Si Silicon</td>
<td>7440-21-3</td>
<td>1.3</td>
<td>1.5-1.5%</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Mn Manganese</td>
<td>7439-96-5</td>
<td>0.5</td>
<td>0.1-1%</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Mo Molybdenum</td>
<td>7439-98-7</td>
<td>0.5</td>
<td>0.1-1%</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Calcium Fluoride</td>
<td>7789-75-5</td>
<td>&lt;.1</td>
<td>0</td>
<td>2.5 (As F)</td>
<td>2.5 (As F)</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt;.1</td>
<td>0</td>
<td>10 (20 STEL)</td>
<td>15</td>
</tr>
<tr>
<td>Potassium Titinate</td>
<td>12030-97-6</td>
<td>&lt;.1</td>
<td>0</td>
<td>5 ND</td>
<td>none</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>1309-48-4</td>
<td>&lt;.1</td>
<td>0</td>
<td>10</td>
<td>15</td>
</tr>
</tbody>
</table>

NOTES: CL = Ceiling Limet, STEL = Short Term Exposure Limit, ND = Nuisance Dust

* Has been recognized as a suspect carcinogen by NTP and IARC

SECTION III - PHYSICAL DATA

Boiling Point (Deg.F)          N/A
Vapor Pressure (mm Hg.)        N/A
Vapor Density (Air = 1)        N/A
Solubility in Water            Insoluble
Appearance and Odor            Metallic gray in color - No odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point                  N/A
Flammable Limits             N/A
Extinguishing Media          Use dry powder extinguishing agent
Fire & Explosion Hazard      1. Metal powder dispersed in air may cause fire & explosion
                                2. Molten metal can ignite combustibles
                                3. Good housekeeping must be maintained
SECTION V - HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation of dust or fume

Under normal conditions, exposure to continuous cast rod presents few health hazards in itself. Welding with rods & electrodes may produce fumes containing the component elements and breathing those fumes may present potentially significant health hazards. Cobalt causes a dermatitis of the allergic sensitivity type at points of friction. Cobalt toxicity also results in a progressive, diffuse, interstitial pneumonia with a non-productive cough, dyspnea on exertion, interstitial fibrosis and cell damage. Other workers have experienced a sensitized respiratory disease characterized by cough, wheezing and shortness of breath where upon removal from the environment, the symptoms subside. EMERGENCY AND FIRST AID PROCEDURES: If irritation occurs, flush eyes, wash skin, remove to fresh air, as applicable. Consult Physician.

SECTION VI - REACTIVITY DATA

Rods and electrodes are stable at ordinary temperatures, however, caution should be taken with acids, bases, and oxidizers. Molten metal will react violently with water.

SECTION VII - SPILL AND LEAK PROCEDURES

Solid rod material will be recycled. Residue from cutting or grinding should be swept or vacuumed and placed in suitable containers for disposal by local, state, or federal waste disposal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: WHEN EXPOSURE LIMITS ARE EXCEEDED, USE PROPER, APPROVED RESPIRATOR.

Ventilation: USE LOCAL EXHAUST WHEN CUTTING, GRINDING, WELDING, OR MELTING. Eye Protection and Protective Clothing: SHOULD BE USED WHEN CUTTING, GRINDING, WELDING, OR MELTING.

SECTION IX - SPECIAL PRECAUTIONS

Use good housekeeping practices to prevent accumulations of dust and to keep airborne dust concentrations at a minimum. Avoid breathing dust or fumes.

PEL/TLV exposures should be kept below recommendations by OSHA and ACGIH to insure proper health protection of worker.