

KALCO METALS, INCORPORATED

MATERIAL SAFETY DATA SHEET

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SECTION I – GENERAL INFORMATION

| | | | |
|-----------------------------|--|-----------------------------------|----------------|
| <i>Manufacturer</i> | Kalco Metals, Incorporated 40 Council Ave. Wheatland, Pennsylvania 16161 | <i>Date Prepared/Revised</i> | 06/ 15/ 2005 |
| | | <i>Emergency Telephone Number</i> | (724) 347-2208 |
| <i>Identity/ Trade Name</i> | Cobalt-Chromium-Molybdenum Dental Alloys (All Sizes) Including Kalcolex™ 100, Kalcolex™ 100S, Kalcolex™ 100N, Kalcolex™ 150 | | |

SECTION II – INGREDIENTS / IDENTITY INFORMATION

| <i>Material or Component</i> | | | | |
|------------------------------|-------------------|------------------------------------|--|---|
| <i>BASE METAL</i> | <i>CAS NUMBER</i> | <i>% COMPOSITION BY WEIGHT</i> | <i>OSHA PEL (mg/m³)</i> | <i>ACGIH TLV (mg/m³)</i> |
| Cobalt, Co | 7440-48-4 | 63.00 – 68.00 | 0.10 | 0.05 |
| Chromium, Cr | 7440-47-3 | 26.00 – 32.00 | 1.00 | 0.50 |
| Molybdenum, Mo | 7439-98-7 | 3.00 – 8.00 | 5.00 | 5.00 |

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

| | | | | | |
|--------------------------------------|----------------|--|---------------|--------------------|---------------|
| <i>Material at Normal Conditions</i> | SOLID | <i>Boiling Pt.</i> | 4800 - 5500 F | <i>Melting Pt.</i> | 2300 – 2700 F |
| <i>Specific Gravity</i> | App. 6.0 – 6.5 | <i>Solubility in Water</i> | Insoluble | <i>pH</i> | NA |
| <i>Reactivity in Water</i> | None | <i>Appearance /Odor</i> Metallic appearance; no odor | | | |

SECTION IV – FIRE and EXPLOSION HAZARD DATA

| | | | | | |
|--|----|-------------------------|----|----------------------------|--------------------------------------|
| <i>Flash Point</i> | NA | <i>Flammable Limits</i> | NA | <i>Extinguishing Media</i> | Non Flammable; Preferably Dry Powder |
| <i>Unusual Fire and Explosion Hazards</i> None | | | | | |

NA = Not Applicable

SECTION V – REACTIVITY DATA

| | | | |
|--|---|----------------------------|------|
| <i>Stable Under Normal Conditions</i> | YES | <i>Conditions to Avoid</i> | NONE |
| <i>Materials to Avoid</i> | Anhydrous Bromine; Chlorine; Fluorine; Strong Oxidizers & Acids | | |
| <i>Hazardous Decomposition Products</i> | May Release Metal Oxide Fumes By Thermal Decomposition | | |
| <i>Hazardous Polymerization Possible</i> | NO | | |

SECTION VI – HEALTH HAZARDS DATA

| | |
|---|---|
| <i>Routes of Entry</i> | Inhalation, Ingestion, Skin, and Eyes if material machined |
| <i>Acute and Chronic Health Hazards</i> | No Known Chronic or Acute Hazards |
| <i>Signs and Symptoms of Exposure</i> | Eye – Irritation; Skin – Possible Irritation to Sensitive Skin; Respiratory – Possible Irritation |
| <i>Emergency and First Aid Procedures</i> | Eye and Skin – Flush with Copious Amounts of Water Respiratory – Remove to Fresh Air; Consult Physician If Necessary |

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

| | |
|--|---|
| <i>Precautions Taken in Handling and Storage</i> | Material Oxides in Air to Form Rust so Keep Material Covered and Dry; Do Not Mix Wet Material with Molten Metal |
| <i>Steps to be Taken if Material is Spilled</i> | Normal Cleanup |
| <i>Waste Disposal Method</i> | According to the Requirements of 40 CFR Subtitle C and other Applicable Federal, State, and Local Regulations |

SECTION VIII – CONTROL MEASURES

| | |
|-----------------------------------|---|
| <i>Respiratory Protection:</i> | Select and Use Respirators According to OSHA Regulations 29 CFR 1910.134 |
| <i>Ventilation Requirements:</i> | Local Exhaust and General Ventilation |
| <i>Local Exhaust:</i> | Use Local Exhaust During Welding, Cutting, or Milling to Avoid Exposure to Metal Oxide Fumes |
| <i>Mechanical:</i> | Good General Ventilation During Handling of Solid Material Should be Used to Control Dust Generated |
| <i>Protective Gloves:</i> | Gloves Recommended During Handling to Prevent Cuts and Abrasions |
| <i>Eye Protection:</i> | Safety Glasses or Goggles |
| <i>Other Protective Clothing:</i> | Safety Toe Footwear |