

# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION



Great Lakes Orthodontics  
200 Cooper Ave  
Tonawanda, NY 14150

716-871-1161  
800-828-7626  
CHEMTREC: 800-424-9300

**Product Name:** Duraloy Wire  
**Product Number:** 265-004, 265-005, 265-006, 265-007, 265-008, 265-009, 265-010, 265-011, 265-012, 265-013, 265-021, 265-022, 265-023, 265-024, 265-025, 265-026, 265-027, 265-028

Effective Date: 3/12/13

## SECTION 2. HAZARDOUS IDENTIFICATION

- Not considered hazardous in the form shipped. Does not include dust, fume, or dissolved metals if/when processed.

### Potential Health Effects:

#### **Primary Routes of Entry**

- Inhalation
- Skin Contact
- Eye Contact

### Human Effects and Symptoms of Overexposure:

#### **Skin**

Processes causing the release of dust and fume can be irritating or harmful to skin.

#### **Eyes**

Processes causing the release of dust and fume can be irritating or harmful to skin.

#### **Inhalation**

Processes causing the release of dust and fume can be irritating or harmful to skin.

#### **Carcinogenicity**

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

### **SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b><u>Hazardous Components</u></b>	<b><u>CAS #</u></b>	<b><u>Average %</u></b>
Cobalt	7440-48-4	40.34
Chromium	7440-47-3	20.08
Nickel	7440-02-0	15.25
Molybdenum	7439-98-7	6.8
Manganese	7439-96-5	1.68
Carbon	7440-44-0	0.096
Silicon	90337-93-2	0.015
Phosphorus	7803-51-2	0.006
Sulfur	9073-75-0	0.001
Beryllium	7440-41-7	<0.001
Iron	7439-89-6	Balance

### **SECTION 4. FIRST AID MEASURES**

- As shipped, the metal is an article with minimal likelihood for hazardous consequences through inhalation, ingestion, skin, or eye contact.

#### **Eye Contact**

Flush eye with plenty of water for 15 minutes and seek medical attention if irritation persists.

#### **Skin Contact**

Wash skin with soap and water. Seek medical attention if rash develops.

#### **Ingestion**

Seek medical attention.

#### **Inhalation**

Remove person from exposure to fresh air. Get prompt medical attention if breathing difficulty continues.

### **SECTION 5. FIRE FIGHTING MEASURES**

- As shipped, the metal is not combustible and no hazardous decomposition products are expected.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

#### **Spill and Leak Procedures**

- As shipped, the metal is not combustible and no hazardous decomposition products are expected.

### **SECTION 7. HANDLING & STORAGE**

#### **Handling / Storage Precautions**

Store away from acids and oxidizers.

## **SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Ventilation Measures**

Local exhaust is recommended to control emissions near the source of metal being cut, ground, welded, or melted.

### **Industrial Hygiene**

Additional engineering controls and/or personal protection equipment such as a NIOSH approved respirator could be required if industrial hygiene monitoring reveal a chemical overexposure during processing.

### **Hand Protection**

As shipped, the metal does not trigger exposure control requirements although leather gloves are recommended when handling metal.

## **SECTION 9. PHYSICAL & CHEMICAL PROPERTIES**

- **Form** – Solid
- **Color** – Gray in color
- **Odor** – Odorless
- **Specific Gravity** – 7.5 – 8.5
- **Flash Point** - > 450 °C (> 842 °F)
- **Melting Point** – 2400 – 2800 °F

**Not applicable:** PH, Evaporation Rate, Boiling Point, Flashpoint, Flammability Limits, Auto Ignition Temperature, Vapor Pressure, and Viscosity.

## **SECTION 10. STABILITY & REACTIVITY**

**Hazardous Reactions** – Hazardous polymerization will not occur.

**Stability** – Stable

**Materials to Avoid** – Acids, bases, and oxidizers.

**Conditions to Avoid** – None known

**Hazardous Decomposition Products** – None for product as shipped.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

No data available.

## **SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)**

No data available.

## **SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)**

### **Waste Disposal Method**

Recycling of all metallic byproducts as scrap is encouraged. If byproducts are to be treated and/or disposed of as wastes, hazardous waste characterizations must be performed prior to treating and/or disposing. Contact appropriate parties to ensure compliance.

## **SECTION 14. TRANSPORT INFORMATION (non-mandatory)**

The Department of Transportation (DOT) regulates transportation of hazardous materials and waste in the United States.

- **Proper DOT Shipping Name** – Hazardous Waste Solid, n.o.s.
- **Hazard Class** – 9
- **Packing Group** – III
- **Identification Number** – UN3077
- **Emergency Response Guide Number** - 171

## **SECTION 15. REGULATORY INFORMATION (non-mandatory)**

United States Federal Regulations

**TSCA (Toxic Substances Control Act):** Not applicable.

**CERCLA (Comprehensive Response Compensation and Liability Act):** Not applicable.

**SARA Title III (Superfund Amendments and Reauthorization Act):**

- **311/ 312 Hazardous Categories:** Not applicable for storage of items as shipped. However, if processed, end products may require reporting.
- **313 Reporting:** Chemical constituents subject to reporting requirements may include: cobalt, chromium, nickel, and/or manganese.

Regulations such as Clean Air Act, Clean Water Act, and Resource Conservation & Recovery Act may apply to the handling of metal grindings and particulates from processing.

California Safe Drinking Water Act (Prop 65) listing:

<u>Component</u>	<u>CAS #</u>
Nickel	7440-02-0
Cobalt	7440-48-4

Governors list of chemicals known to cause cancer and reproductive toxicity includes hexavalent compounds of chromium and nickel dust from pyro metallurgical processing.

<b>SECTION 16. OTHER INFORMATION (non-mandatory)</b>
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HMIS Rating:

- **Health** – 0 as shipped 2 if ground, welded, or melted
- **Flammability** – 0
- **Physical Hazard** – 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

\* = Chronic Health Hazard

NFPA Rating:

- **Health** – 0 as shipped 2 if ground, welded, or melted
- **Flammability** – 0
- **Physical Hazard** – 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

\* = Chronic Health Hazard