SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

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, 265-006, 265-007, 265-008, 265-009, 265-010, 265-011, 265-012, 265-013, 265-022, 265-023, 265-024, 265-025, 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

Hazardous Components	CAS #	Average %
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:

Component	CAS #
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.

SECTION 16. OTHER INFORMATION (non-mandatory)

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