

# 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:** Stainless Steel Attachments, Screws, Wires, and Springs  
**Product Number:** 090-042, 090-043

Effective Date: 10/21/13

## SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

### **Primary Routes of Entry**

- Inhalation
- Skin Contact
- Eye Contact

Human Effects and Symptoms of Overexposure:

Stainless steel alloys are generally not considered hazardous in the form shipped. However, if your process involves grinding, melting, cutting, or any other procedure that causes a release of dust or fumes, hazardous levels of dust or fumes of these alloys constituents may be generated.

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>Wt. %</u>	<u>NTP Listed</u>	<u>IARC Listed</u>
Iron	0 – 80	No	No
Chromium	13 – 23	Yes	Yes
Nickel	3 – 45	No	No
Manganese	0 – 3	No	No
Molybdenum	0 – 12	No	No
Cobalt	0 – 37	No	No
Copper	0 – 5	No	No
Silicon	0 – 5	No	No
Aluminum	0 – 5	No	No
Niobium	0 – 5	No	No

The above listing is a summary of elements used in alloying stainless steel. Various grades of stainless steel will contain different combinations of these elements. Trace elements may also be present in minute amounts. Coatings: Certain materials such as lime, alkaline salts, or oils and certain residuals (<1% total weight of product) may remain on the product surface.

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

### **Eye Contact**

Flush thoroughly with water, consult a physician.

### **Skin Contact**

Excessive or prolonged skin contact may cause irritation in sensitized persons. Wash with water and mild detergent, consult a physician.

### **Inhalation**

Move person to fresh air until recovered, consult a physician.

### **Ingestion**

While ingestion of large enough quantities to cause health effects is unlikely, consult a physician if it occurs.

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

### **Suitable Extinguishing Media**

Not applicable

### **Special Fire Fighting Procedures**

Not applicable

### **Unusual Fire / Explosion Hazards**

Not applicable.

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

### **Spill and Leak Procedures**

Mechanical sweep up.

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

### **Handling / Storage Precautions**

Not applicable

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

### **Industrial Hygiene**

Follow standard laboratory safety practices.

### **Ventilation Measures**

General

### **Respiratory Protection**

Required when cutting, grinding, or welding.

### **Skin and Body Protection**

Required when cutting, grinding, or welding.

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

- **Melting Point** – 1100 - 3050
- **Vapor Pressure** – Nil
- **Solubility in Water** – Insoluble
- **Specific Gravity (H2O=1)** – 4,5 – 18

**Not applicable** – Appearance, Odor, PH, Boiling Point, Auto-Ignition, Flash Point, Flammability, Explosive limits in air, Oxidizing Properties, Vapor Density, Reactivity in water.

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

**Hazardous Reactions** – Not applicable

**Stability** – Stable

**Materials to Avoid** – None

**Conditions to Avoid** – None

**Hazardous Decomposition Products** – None

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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

Not applicable

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

**Waste Disposal Method**

Local regulations.

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

- **UN Classification:** Not applicable
- **Identification:** Not applicable
- **Special provisions for transport:** Not applicable

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

**EU medical device directive:** 93/42 EEC.

**SECTION 16. OTHER INFORMATION (non-mandatory)**

Not applicable.