

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

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 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.