

# 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:** Ball Clasp  
**Product Number:** 090-034, 090-035

Effective Date: 08/30/17

## SECTION 2. HAZARDOUS IDENTIFICATION

United States  
According to: OSHA 29 CFR 1910.1200 HCS

### Classification

OSHA HCS 2012 – This product is generally an article and is considered non-hazardous in its solid form, but is regulated under OSHA for the release of dust and fumes during mechanical processing operations.

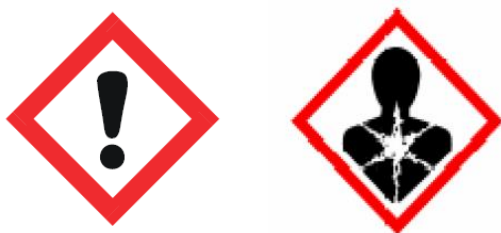
- Skin Irritation – 2
- Eye Irritation – 2
- Skin Sensitization – 1B
- Carcinogenicity – 1B
- Specific Target Organ Toxicity Single Exposure – 3 Respiratory Tract Irritation
- Specific Target Organ Toxicity Single Exposure – 1
- Specific Target Organ Toxicity Repeater Exposure – 1
- Combustible Dust
- Respiratory Sensitization – 1B

### Signal Word

Danger

## **Hazard Statement**

There are no health hazards from stainless steel wire in solid form. Exposure to dust and/or fumes from processing such as burning, welding, sawing, brazing, and grinding may cause serious health effects. Causes skin irritation, may cause an allergic skin reaction, causes serious eye irritation, may cause respiratory irritation, may cause cancer, causes damage to organs (lungs via inhalation), causes damage to organs (lungs through prolonged or repeated exposure via inhalation), and may form combustible dust concentrations in air.



## **Precautionary Statement – Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dusts, fumes, and gasses. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, work gloves, eye/face protection, and safety glasses or goggles. In case of inadequate ventilation wear respiratory protection.

## **Precautionary Statement – Response**

If INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned, get medical advice/attention. IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continuing rinsing. If eye irritation persists, get medical advice/attention. IF ON SKIN wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

## **Precautionary Statement – Storage/Disposal**

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Refer to manufacturer/supplier for information on recovery/recycling.

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Mixtures

Stainless steel in its solid state is not considered hazardous. However, operations such as burning, welding, sawing, brazing, or grinding may release dust and/or fumes which may present health hazards. These elements may appear in some or various combinations in any particular grade of stainless steel.

<u>Hazardous Components</u>	<u>%</u>	<u>CAS#</u>	<u>Hazardous</u>
Aluminum (Al)	< 3.5	7429-90-5	Yes
Chromium* (Cr)	< 30	7440-47-3	Yes
Cobalt (Co)	> 30	7440-48-4	Yes
Copper (Cu)	< 34	7440-50-8	Yes
Iron (Fe)	< 85	7439-89-6	No
Manganese (Mn)	< 10	7439-96-5	Yes
Molybdenum (Mo)	< 18	7439-98-7	No
Nickel (Ni)	< 35	7440-02-0	Yes
Silicon (Si)	< 4.5	7440-21-3	Yes
Tantalum (Ta)	< 5.5	7440-25-7	Yes
Tungsten (W)	< 6.5	7440-33-7	Yes
Vanadium (V)	< 0.5	7440-62-2	Yes

\* Stainless steel products as provided contain chromium metal in the zero valence state. As such, chromium metal does not present an unusual health hazard. However, operations such as burning, welding, sawing, brazing, or grinding may generate airborne concentrations of hexavalent chromium.

### SECTION 4. FIRST AID MEASURES

#### Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

#### Skin Contact

If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if symptoms occur.

#### Ingestion

Low hazard for usual industrial or commercial handling. Get medical attention if symptoms occur.

- Most important symptoms and effects both acute and delayed – refer to Section 11 Toxicological Information.

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

### **Suitable Extinguishing Media**

For solid formed alloys, as appropriate for surrounding fire. A fire involving finely divided alloy should be treated as a Class D metal fire. Use dry sand, graphite powder, dry sodium chloride based extinguishers, G-1 or Met-L-X powder.

### **Unsuitable Extinguishing Media**

Do not use halogenated extinguishing agents or foam.

### **Hazardous Combustion Products**

May produce hazardous metal fumes.

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

Stainless Steel Products in the form shipped are not considered combustible. During subsequent processing (cutting, welding, grinding, etc.), the generation of dust in high concentration may present fire and explosion hazards.

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

### **Spill and Leak Procedures**

Avoid dust generation. Eliminate all ignition sources.

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

### **Handling / Storage Precautions**

Keep away from heat and ignition sources, oxidizers, and acids.

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

### **Ventilation Measures**

Adequate ventilation is required when welding, cutting, grinding, or burning this product.

### **Respiratory Protection**

Dust / fume respirators are required if the fume levels exceed TLV values.

### **Additional Protective Measures**

Wear protective eye-ware, gloves, clothing (no exposed skin).

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

- **Form** – Solid
- **Odor** – Odorless
- **Melting Point** – 2500 °F – 2800 °F
- **Density** – .28 lb / inch<sup>3</sup>
- **Solubility in Water** – Insoluble

**Not applicable** – Flash Point, Boiling Point, Vapor Pressure, Vapor Density, Evaporation, % Volatiles by Volume

## SECTION 10. STABILITY & REACTIVITY

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

**Stability** – Stable

**Materials to Avoid** – Insoluble in water and alkalines, corrodes in acids and certain salts.

**Conditions to Avoid** – Incompatible materials – oxidizers and acids.

**Hazardous Decomposition Products** – Metal fumes

## SECTION 11. TOXICOLOGICAL INFORMATION

Minimal impact in solid form.

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

Not applicable

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

**Waste Disposal Method**

- Solids – Recycle as scrap
- Dusts – Dispose of dusts according to local, state, and federal regulations.

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

Not applicable

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

Not applicable

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

HMIS Rating:

- **Health** – 1\*
- **Flammability** – 0
- **Reactivity** – 0
- **PPE** – E

NFPA Rating:

- **Health** – 1
- **Flammability** – 0

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

\* = Chronic Health Hazard

E = Safety glasses, gloves, and respirator if above exposure levels