

SAFETY DATA SHEET: Gold Alloy

Section I – IDENTIFICATION

Product Name: Rumely Traction Hook (Only for Chain Plating, for pad see Stainless Steel SDS, for chain see Brass SDS)

Common Name: Intraoral Auxiliaries

Material: Gold Alloy

Recommended Use: TP Orthodontics' products are intended for use in orthodontic treatment.

Restrictions on Use: TP Orthodontics' products are intended for use by trained dental professionals and orthodontists, who have the primary responsibility to identify any possible contraindications that may preclude the use of this product. U.S. Federal law restricts this device to sale by or on the order of a dental professional.

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Emergency Number: 800-348-8856
Available during normal business hours: Monday-Thursday 7am to 5pm CST and Friday 7am to 12pm CST

Section II – HAZARD IDENTIFICATION

General Hazard Statement: As per OSHA Regulation 29 CFR 1910.1200, cobalt chrome alloys are classified as articles and do not constitute a hazardous material in their solid form. The products covered by this document are manufactured items which are assembled to a specific shape and design and are generally classified as non-hazardous in their shipped form.

This product is considered an article and does not release or otherwise result in exposure to a hazardous material under normal use conditions. However, some hazardous elements contained in these products may be emitted under certain processing conditions such as grinding, burning, welding, cutting, melting, brazing, or machining. The first-aid and fire-fighting measures below are for hazardous materials which may be emitted during processing. Products in their solid form do not present a fire or explosion hazard.

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Section III – COMPOSITION/ INFORMATION ON INGREDIENTS**Mixtures: ***

Ingredient(s)	CAS No.	EC No.	wt%
Gold	7440-57-5	231-165-9	1.4 – 79.2
Silver	7440-22-4	231-131-3	1.0 – 84.0
Copper	7440-50-8	231-159-6	1.0 – 90.0
Zinc	7440-66-6	231-175-3	1.0 – 19.0

**No minor components need to be disclosed according to the applicable regulations.*

Section IV – FIRST-AID MEASURES

Skin:	Localized Argyria may result from contact. Remove contaminated clothing. Thoroughly wash affected area with soap and water. Consult with doctor.
Eyes:	Dust may cause irritation. In the case of eye contact, flush with large amounts of water for at least 15 minutes and seek immediate medical attention.
Ingestion:	If ingested, may cause generalized Argyria, and may irritate gastrointestinal tract. Seek emergency medical attention.
Inhalation:	Inhalation of dust or metal fumes may cause Argyria, a blue-green discoloration of the skin, mucous membranes and eyes. Also, may cause irritation of the respiratory tract or metal fume fever with symptoms of fever, chills, nausea, chest tightness or metallic taste. If inhaled, remove from exposure, move to fresh air and seek immediate medical attention. Use mechanical ventilation or respiratory protection to avoid inhaling metal fumes.

Section V – FIRE-FIGHTING MEASURES

Flash Point and Method:	NA
Flammability Limits:	NA
Auto-ignition Temperature:	NA
Melting Point:	1550°F-1675°F
General Hazard:	Not combustible in the shipped form
Firefighting Instructions:	No special instructions for product shipped

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Firefighting Equipment: Use self-contained breathing apparatus.

Combustion Products: No hazardous decomposition products are expected

Section VI – ACCIDENTAL RELEASE MEASURES

General: If accidentally released, gather product and store properly. As shipped the product does not pose a hazard to the environment.

Section VII - HANDLING AND STORAGE

Storage Temperature: No special requirement.

Storage Pressure: Not applicable

General Storage: Store away from acids, bases, and oxidizers.

Section VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal Protection Equipment

Eyes: Safety glasses recommended. If grinding gold alloy, a face shield is also recommended.

Skin: Gloves recommended when handling alloy.

The use of local exhaust ventilation is recommended to control emission near the source of metal being cut, ground welded or melted.

Section IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	solid metal, yellowish to white in color
Odor	Odorless
Physical State	Solid
pH	N/A
Melting/Boiling Point	MP: 1550-1675°F
Flash Point	N/A
Evaporation Rate	N/A
Flammability	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Relative Density	12.9 – 14.6 g/cm ³

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Solubility in water	Insoluble
Auto-ignition Temp	N/A
Decomposition Temp	N/A
Viscosity	NA

Section X – STABILITY AND REACTIVITY

Stability: Product is Stable.

Reactivity: None for the product as shipped.

Incompatible Material: Avoid acetylene, ammonia, cyanides, oxidizers, hydrogen peroxide, strong acids and bases

Section XI – TOXICOLOGICAL INFORMATION

Gold alloy fumes and dust toxicological information is not applicable for this manufactured item in its shipping form.

Section XII – ECOLOGICAL INFORMATION

There is no data available.

Section XIII – DISPOSAL CONSIDERATIONS

General: Recycling of all metallic byproducts as scrap is strongly encouraged. If byproducts need to be treated and/or disposed of as wastes, hazardous wastes characterizations must be performed prior to treating and \or disposing. Contact appropriate parties to ensure compliance with all federal, state and local rules and regulations related to waste treatment and disposal.

Section XIV – TRANSPORTATION INFORMATION

Not regulated by DOT.

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Section XV – REGULATORY INFORMATION

CERCLA Sections 102a/103 Hazardous Substances (40 CFR 302.04): Not regulated.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards: Copper and silver are subject to reporting requirements of SARA Title II, Sections 311/312.

SARA 313 Components: Copper and silver are subject to reporting under SARA Title III, Section 313

Massachusetts Right To Know Components: Zinc: CAS No. 7440-66-6
Copper: CAS No. 7440-50-8
Silver: CAS No. 7440-22-4

Pennsylvania Right To Know Components: Zinc: CAS No. 7440-66-6
Copper: CAS No. 7440-50-8
Silver: CAS No. 7440-22-4

New Jersey Right To Know Components: Zinc: CAS No. 7440-66-6
Copper: CAS No. 7440-50-8
Silver: CAS No. 7440-22-4

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section XVI – OTHER INFORMATION

All the information is collected from Supplier certificate of analysis, manufacturing process, technical files and known history from 70 years of experience and is believed to be correct as of the date issued.

By supplying above information, TP Orthodontics, Inc. assumes no legal responsibility of any kind for the accuracy, completeness, or use of the data supplied as well as the product mentioned in the foreclosure