



Reliance Orthodontic Products, Inc.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/29/2018 Version: 3

.1. Product identifier	
Product form	: Yellow 14 Karat Gold
Product name	: C&C
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the substance/mixture	: For professional use only.
1.3. Details of the supplier of the safe	ety data sheet
Manufacturer:	
Reliance Orthodontic Products Inc. 1540 We	
630-773-4009, during normal business hours	
1.4. Emergency telephone number	
Emergency number	: 1-401-732-6200
SECTION 2: Hazards identification	n
2.1. Classification of the substance of	
Classification (GHS-US) Non-hazardous in solid, bulk form	
Dust or fine turnings may cause:	
Eye Irritation H319	
Respiratory Irritation H335	
If inhaled, metal fume H333	
Full text of H-phrases: see section 16	
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2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: Bulk, solid material is non-hazardous
	Hazard statements for dust or fine turnings:
	H319 – May cause eye irritation
	H335 – May cause respiratory irritation
	Hazard statement for metal fume:
	H333 – May be harmful if inhaled
Precautionary statements (GHS-US)	: Bulk, solid material is non-harzardous
	For dust or fine turnings:
	P210 – Keep away from heat/sparks/open flames/ hot surfaces. No smoking
	P242 – Use ony non-sparking tools
	P243 – Take precautionary measures against static discharge.
	P264 – Wash skin thoroughly after handling.
	P280 - Wear protective gloves, eye protection
	P281- Use personal protective equipment, as required
	P305+P351+P338 IF IN EYES: Rinse with water for 15 minutes. Remove contact lenses, if
	P305+P351 + P338 – If in eyes, rinse with water for 15 minutes. Remove contact lenses, if
	present and continue rinsing. P342 + P311 If experiencing respiratory symptoms, call a poison center or physician

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

For metal fume:
P260 – Do not breathe dust/fume/gas/mist/vapor/spray.
P285 – In case of inadequate ventilation, wear respiratory protection
Dust or fine turnings may be irritating to mucous membranes, respiratory tract or eyes upon contact.

2.3. Other hazards

Not Applicable

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance				
INGREDIENTS	<u>%</u>	<u>CAS #</u>	Classification	EC Number
Gold	1.4-79.2%	7440-57-5	H319,H33, H335	231-165-9
Silver	1.0 - 84.0	7440-22-4	H319,H33, H335	231-131-3
Copper	1.0 - 90.0	7440-50-8	H319,H33, H335	231-159-6
Zinc	1.0 – 19.0	7440-66-6	H319,H33, H335	231-175-3
Silver Copper	1.0 - 84.0 1.0 - 90.0	7440-22-4 7440-50-8	H319,H33, H335 H319,H33, H335	231-131-3 231-159-6

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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.
skin contact	 Localized Argyria or dermatitis may result from contact. Contact may cause allergic reaction or sensitization. Remove contaminated clothing. Thoroughly wash affected area with soap and water. Consult with doctor.
eye contact	: 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.
4.2. Most important symptoms and eff	ects, both acute and delayed
Exposure to dust or metal fumes may irritate res	piratory system and result in metal fume fever.
4.3. Indication of any immediate medic	al attention and special treatment needed
No data available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, alcohol resistant foam, dry chemical or CO2 extinguisher
Unsuitable extinguishing media	: No data available
5.2. Special hazards arising from the s	ubstance or mixture
No data available	
5.3. Advice for firefighters	
Firefighting instructions	: Use self-contained breathing apparatus
Protection during firefighting	: No data available.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective Equipment	Use appropriate personal protective equipment based on site conditions.

Safety Data Sheet

Emergency procedures		: Avoid breathing dust or fumes. Use adequate ventilation. Remove all ignition sources if dust is present. Note that dust and fine shavings may be flammable.	
6.1.2.	For emergency responders		
Protect	tive equipment	: Use appropriate personal protective equipment based on site conditions.	
Emerg	ency procedures	: Control ignition sources and use non-sparking tools when handling dust or finely ground turnings which may be flammable.	
6.2.	Environmental precautions		
No spe	ecial precautions for bulk solid material.	Do not let dust or turnings enter drains.	
6.3.	Methods and material for contain	ment and cleaning up	
Methoo	ds for cleaning up	: Sweep or shovel bulk solid and store in sealed container prior to disposal/recycle. Avoid statis discharge when collecting dust or fine turnings which may be flammable.	
6.4.	Reference to other sections		
See Se	ection 13.		
SECT	FION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	itions for safe handling	: Further processing of solid material may generate combustible dust or turnings. Provide adequate ventilation and routine maintenance to prevent the buildup of combustible dust. Implement control measures to reduce the generation of statis discharge where dust is created.	
7.2.	Conditions for safe storage, inclu	Iding any incompatibilities	
	ons for Safe Storage	: Keep container closed when not in use.	
Conditi	ions for Sale Storage	. Reep container closed when not in use.	

7.3. Specific end use(s)

Apart from those mentioned in Section 1.2, no other specific uses are stipulated.

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SECTION 8: Exposure controls/personal protection

8.1. Control pa	arameters	
Gold CAS 7440-57	'- 5	
PEL	Not Established	OSHA Permissible Exposure Limit Table Z-1
REL	Not Established	NIOSH Recommended Exposure Limit
TWA	Not Established	USA ACGIH Threshold Limit Value (TLV)
Silver CAS 7440-2	2-4	
PEL	0.01 mg/m3	OSHA Permissible Exposure Limit Table Z-1
REL	0.01 mg/m3	NIOSH Recommended Exposure Limit
TWA	0.1 mg/m3	USA ACGIH Threshold Limit Value (TLV)

Copper CAS 7440	Copper CAS 7440-50-8		
PEL	1 mg/m3 (dust or mist)	OSHA Permissible Exposure Limit Table Z-1	
PEL	0.1 mg/m3 (fume)	OSHA Permissible Exposure Limit Table Z-1	
REL	1 mg/m3 (dust or mist)	NIOSH Recommended Exposure Limit	
REL	0.1 mg/m3 (fume)	NIOSH Recommended Exposure Limit	
TWA	0.2 mg/m3	USA ACGIH Threshold Limit Value (TLV)	

Zinc CAS 7440-66-6		
PEL	Not Established	OSHA Permissible Exposure Limit Table Z-1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Zinc CAS 7440-6	6-6	
REL	Not Established	NIOSH Recommended Exposure Limit
TWA	Not Established	USA ACGIH Threshold Limit Value (TLV)
.2. Exposur	e controls	
.2.1 Appropriate E	ngineering Contro	 Provide local exhaust when cutting, grinding, or heating. Use good industrialhygiene practices. Keep dust and fume buildup to a minimum. Avoid static discharge where dust or turnings are generated.
.2.2 Personal Prot Respiratory Prote		: Respiratory protection is not required when handling bulk solid materials. Where nuisance dusts are generated, use N95 or type P1 (EN143) dust mask. Use air purifying cartridge respirator equipped with N100, R100 or P100 filters when exposed to metal fumes.
Skin Protectio	n	: Wear leather or Kevlar gloves when handling metal stock to prevent cuts.
Eye Protection	on	: Wear ANSI Z87.1 approved safety glasses with side shields

SECTION 9: Physical and chemical properties

9.1. Information on basic physical an	d chemical properties
Physical state	: Solid metal yellowish to white in color
Odor	: No odor
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No data available	
SECTION 10: Stability and reactiv	tv

SECTION	DN 10: Stability and reactivity
10.1.	Reactivity
Stable un	der normal conditions
10.2.	Chemical stability
Stable un	der normal temperatures and pressures
10.3.	Possibility of hazardous reactions
No data a	available

Safety Data Sheet

	March 26, 2012 / Rules and Regulations
10.4. Conditions to avoid	
Overheating during brazing, soldering or melting	
10.5. Incompatible materials	
Avoid acetylene, ammonia, oxidizers, hydrogen p	peroxide, strong acids and bases
10.6. Hazardous decomposition products	
No data available.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: No data available.
Skin corrosion/irritation	: No data available.
Serious eye damage/irritation	: No data available.
Respiratory or skin sensitization	: No data available.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: None of the components of this product present at levels greater than or equal to 0.1% has been identified as a probable, possible or confirmed human carcinogen by IARC, ACGIH NTP or OSHA
Reproductive toxicity	: No data available.
Specific target organ toxicity (single exposure)	: No data available.
Specific target organ toxicity (repeated exposure)	: No data available
Aspiration hazard	: No data available
Potential Adverse human health effects and	: No data available

12.2.	Persistence and degradability	
No data available		
12.3.	Bioaccumulative potential	
No data available		
12.4.	Mobility in soil	
No data available		
12.5.	Results of PBT and vPvB Assessment	
No data available		
12.5.	Other Adverse Effects	
No data available		
SECTION 13: Disposal considerations		
13.1.	Waste treatment methods	

Waste Treatment Methods

: Surplus materials may have reclaim value. Dispose of unsalvageable material in accordance with applicable Federal, State/Provincial and Local regulations. Subject to federal disposal regulations: US EPA 40CFR262

SECTION 14: Transport information

Not regulated as a dagnerous good per US DOT 49 CFR 171-180 or UN Dangerous Goods List.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.1 UN NUmber	
Not Assigned	
14.2 UN Proper Shipping Name	
Not Applicable	
14.3 Transport Hazard Class	
Not Regulated – no hazard assigned	
14.4 Packing Group	
Not Applicable	
14.5 Environmental Hazards	
No data Available	
14.6 Transport in Bulk	
Not Applicable	
14.7 Special Precaution for User	
No Special Precautions	

SECTION 15: Regulatory information

15.1. Safety, Health and Environmental regulations/legislation specific for substance or mixture

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

SARA 302 Components: No components of 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: Silver CAS 7440-22-4 Copper CAS 7440-50-8 Zinc CAS 7440-66-6

Pennsylvania Right to Know Components:

Silver CAS 7440-22-4 Copper CAS 7440-50-8 Zinc CAS 7440-66-6

New Jersey Right to Know Components:

Silver CAS 7440-22-4 Copper CAS 7440-50-8 Zinc CAS 7440-66-6

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

SECTION 16: Other information			
NFPA Rating	HMIS Rating		
Health Hazard : 0	Health Hazard : 0		
Fire Hazard: 0	Fire Hazard: 0		
Reactivity Hazard: 0	Reactivity Hazard: 0		

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product