

Safety Data Sheet

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

Date of issue: 11/15/2016 Version: 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Yellow 14 Karat Gold

Product name : C&C

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For professional use only.

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Reliance Orthodontic Products Inc. 1540 West Thorndale Ave. Itasca, IL 60143 USA

630-773-4009, during normal business hours

EC Representative:

Emergo Europe, Molenstraat 15, 2513 BH, The Hague, The Netherlands

Australian Sponsor: Emergo Australia, 201 Sussex St. Darling Park, Tower II, Level 20, Sydney, NSW 2000 Australia

1.4. Emergency telephone number

Emergency number : 1-401-732-6200

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

EN (English US) Page 1

Safety Data Sheet

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

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 P370 + P378 – In case of fire: Use dry sane, dry chemical, CO2 or Class D Extinguisher.

For metal fume:

P260 – Do not breathe dust/fume/gas/mist/vapor/spray.

Hazards not otherwise classified: 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

<u>INGREDIENTS</u>	<u>%</u>	CAS#	<u>Classification</u>	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

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 effects, both acute and delayed

Exposure to dust or metal fumes may irritate respiratory system and result in metal fume fever.

4.3. Indication of any immediate medical 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 substance or mixture

No data available

5.3. Advice for firefighters

Firefighting instructions : Use self-contained breathing apparatus

Protection during firefighting : No data available.

EN (English US) 2/6

Safety Data Sheet

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective Equipment Use appropriate personal protective equipment based on site conditions.

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

Protective equipment : Use appropriate personal protective equipment based on site conditions.

Emergency 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 special precautions for bulk solid material. Do not let dust or turnings enter drains.

6.3. Methods and material for containment and cleaning up

Methods 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 Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions 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, including any incompatibilities

Conditions for Safe Storage : Keep container closed when not in use.

Incompatibilities : Acetylene, Ammonia, oxidizers, hydrogen peroxide, strong acids and bases.

:

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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 7440-22-4			
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 7440-50-8				
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)		

EN (English US) 3/6

Safety Data Sheet

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

Zinc CAS 7440-66-6				
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)		

8.2. Exposure controls

8.2.1 Appropriate Engineering Controls

: 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.

8.2.2 Personal Protective Equipment:

- Respiratory Protection

: 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 Protection

: Wear leather or Kevlar gloves when handling metal stock to prevent cuts.

- Eye Protection

Wear ANSI Z87.1 approved safety glasses with side shields

8.2.3 Environmental Exposure Controls

: Do not let product enter drains.

: No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid metal yellowish to white in color

Odor : No odor

Odor threshold No data available pН 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 No data available Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available No data available Flammability (solid, gas) 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 No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties No data available No data available Oxidizing properties

9.2. Other information

No data available

Explosive limits

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal temperatures and pressures

EN (English US) 4/6

Safety Data Sheet

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

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Overheating during brazing, soldering or melting

10.5. Incompatible materials

Avoid acetylene, ammonia, oxidizers, hydrogen peroxide, strong acids and bases

10.6. Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

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

symptoms

SECTION 12: Ecological information

12.1. Toxicity

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.

EN (English US) 5/6

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
Health Hazard: 0
Health 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

EN (English US) 6/6