

MATERIAL SAFETY DATA SHEET

04/30/07
Revision – 4

Ortho FlexTech

1. PRODUCT IDENTIFICATION

PRODUCT NAME: Ortho FlexTech (Karat Gold Solder Filled Wire)

Supplier: Reliance Orthodontic Products, Inc.
PO Box 678 · Itasca, IL 60143, U.S.A.
Emergency Telephone Phone: 630-773-4009 · Fax: 630-250-7704

Authorized Representative: Emergo Europe, Molenstraatt, 15, 2513 BH The Hague,
The Netherlands
Phone: +31-70-345-8570 · Fax: +31-70-346-7299

CE Administrator: Amtac Certification Services Ltd., Davey Avenue, Knowlhill, Milton
Keynes, MK5 8NL, United Kingdom

OTHER DESIGNATIONS:

B1405 – 14 Karat #300 White Solder Filled Wire with 7% 14 Karat #301 Solder

2. INGREDIENTS AND HAZARDS

| <u>INGREDIENTS</u> | <u>%</u> | <u>CAS #</u> | <u>PEL #</u> | <u>TLV #</u> |
|--------------------|---------------|--------------|-----------------------|----------------------------|
| (a) Gold | 58.33 - 58.70 | 7440-57-5 | N/A | N/A |
| (b) Silver | 1.5 - 6.0 | 7440-22-4 | .01 mg/m ³ | .01 mg/m ³ |
| (c) Copper | 28.0 - 31.0 | 7440-50-8 | .01 mg/m ³ | 0.2 mg/m ³ |
| (d) Nickel | 0.3 - 6.5 | 7440-02-0 | 1.0 mg/m ³ | 1.5 mg/m ³ |
| (e) Zinc | 5.0 - 6.3 | 7440-66-6 | 5 mg/m ³ | 5 mg/m ³ as ZnO |

3. PHYSICAL DATA

Appearance & Color: Products are solid metals and are supplied in various shapes. Color varies from yellowish to white.

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Solid metal is non-flammable.
Extinguishing Media: Dry chemical, CO₂, dry sand may be used.
Special Fire Fighting Procedure: Use self-contained breathing equipment.
Unusual Fire and Explosion Hazard: Not normally flammable. Fine powder or dust may ignite at high temperatures.

5. REACTIVITY DATA

Stable: Yes.
Conditions to Avoid: Overheating
Hazardous Polymerization: Will NOT occur.

6. HEALTH HAZARD DATA

Nickel is a suspected carcinogenic.

Inhalation: May cause irritation of the respiratory tract or metal fume fever with symptoms of fever, chills, nausea, chest tightness or metallic taste. May cause Argyria, a blue-gray discoloration of the skin, mucous membranes and eyes. Remove from exposure, seek medical attention.

Ingestion: May cause generalized Argyria and may be mildly irritating to the lining of the stomach and intestines. Seek medical attention.

Skin: May cause irritation and/or allergic sensitization. May also cause localized Argyria. Remove contaminated clothing. Wash skin with soap and water.

Eyes: Irritation may result. Rinse thoroughly with clean water. Seek medical attention if symptoms develop.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps in Case of Spill or Leak: Notify safety personnel of spills. Clean-up personnel need protection against inhalation of dust or fumes. Pick up material using vacuum. Keep dust at a minimum.

Disposal: MAY HAVE RECLIAM VALUE! Dispose of any unsalvageable material in accordance with federal, state and local regulations.

8. CONTROL MEASURES

Ventilation & Respiratory Protection: Provide efficient local exhaust ventilation necessary to meet T.L.V. requirements in the workplace. Approved respirator protection is required when heating, grinding and for special operations where dust and/or fume exposure may occur.

Other Protective Equipment: Gloves and/or protective clothing is required to prevent excessive dust contact with skin and/or for protection from cuts, abrasions, etc. when performing mechanical operations or handling sharp pieces of metal. Face and/or eye protection is recommended where the possibility of getting dust or particles in the eyes exists.

Work/Hygiene Practices: Avoid inhalation or ingestion. Practice good housekeeping. Avoid eating and smoking in the work area. Wash thoroughly before eating and smoking.

9. SUPPLIER NOTIFICATION

This product contains one or more chemicals which are listed in the EPA's, SARA, Title III, Section 313, Subpart D of 40 CFR 372, entitled Emergency Planning and Community Right-to-Know Act (ERCRA). The maximum concentrations (wt. %) of the toxic chemicals contained in this product are identified in Section 2 of this MSDS.

This information and data are taken from sources believed to be reliable and correct but cannot be warranted by manufacturer. User is responsible to determine suitability of material for a specific application.

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