

Material Safety Data Sheet (MSDS)
2017

PRODUCT IDENTIFICATION: Cu NiTi Archwire
 MANUFACTURER'S NAME: Shanghai Fanta Dental Materials Co. Ltd
 ADDRESS: #33 Caobao Rd, Xuhui Dist, Shanghai, China 200235
 CHEMICAL NAME: Nickel-Base Alloy
 CHEMICAL FAMILY: Metal Alloy

COMPOSITION:

Element	Ni	Cu	Cr	C	H	O	N	Ti
Weight (%)	46.00-52.00	3.00-8.00	0.10-0.80	≤0.10	≤0.015	≤0.15	≤0.05	Balance

HEALTH HAZARD INFORMATION

Although Nitinol alloys do not constitute a physical or health hazard in the form sold, subsequent operations such as abrading, melting, welding, cutting or processing in any other fashion may produce potentially hazardous dust or fumes which can be inhaled, swallowed, or come into contact with skin or eyes.

CAUTION: The product may be sterilized by autoclave, for use by professional only. It contains Nickel, Copper, if a patient reaction is suspected, contact a physician.

REACTIVITY DATA

STABILITY: Nitinol alloys are stable.

CONDITIONS TO AVOID: Avoid generation of airborne dust which presents moderate fire and explosion hazards.

INCOMPATIBILITY: (Materials to Avoid): Acids, bases, and oxidizers. Hydrogen and poisonous fumes may develop. Molten metal will react violently with water.

SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED: Fine material should be swept or vacuumed. Avoid using compressed air to maneuver spills or leaks of dusty material as this may likely cause eye contamination.

WASTE HANDLING AND DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, and local regulations. NOTE: TREAT USED WIRES AS BIOHAZARDOUS WASTE.

SPECIAL PROTECTION INFORMATION

Nitinol alloys in the form shipped require no special protection for handling. For specific processing, the following should be observed:

VENTILATION REQUIREMENTS: General – Recommended (top keep airborne concentration of dust and fumes below ACGIH RLV'S). Local: As required. Use well ventilated areas for abrasive saw operations.

PERSONAL PROTECTIVE EQUIPMENT: WIRE CUTTING: Wire cutters that control the cut off wire shard are recommended to avoid the shard becoming a projectile and potentially dangerous. When the wire is cut, control and dispose of the wire pieces and shards safely. Cut wires perpendicular to the wire to blunt ends and reduce pointed or sharp ends. A diamond file or stone may be used to round pointed wire ends.

EYE PROTECTION: Recommend approved safety glasses for machining operations and wire cuttings, and face shields for all abrasive saw and grinding operations.

GLOVES: Leather, cotton, latex or rubber gloves are recommended when gloves are to be used.

SPECIAL PRECAUTIONS Use good housekeeping practices to prevent accumulation of dust, to keep airborne dust, wire shards or scrap wire at a minimum.

The information set forth on this MSDS is believed to be accurate and represents the best information

