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Material Safety Data Sheet
Mar 2018

PRODUCT IDENTIFICATION: Coated Nitinol Orthodontic Wire

MANUFACTURER'S NAME: Beijing Smart Tech Co., Ltd

TEL: 86-10-82899009

CHEMICAL NAME: Epoxy Resin coating Nickel-Base Alloy

CHEMICAL FAMILY: Plastic coating Metal Alloy

COMPOSITION: Coating: Epoxy Resin

Core: NITINOL. 55% Nickel; balance Titanium.

HEALTH HAZARD INFORMATION

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

CAUTION: The product may be sterilized by autoclave, for use by orthodontic profession I only. Avoid using sharp tools to operate. If a patient reaction is suspected, contact a physician.

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 shard 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.

PUNCTURE PROTECTION: Orthodontic patients should be told not to eat foods that will bend the wire as they could receive a puncture wound from the wire. Should the wire break and a small section be loose enough to dislodge from the braces, patients should be instructed to remove the loose wire as to prevent the possibility of ingestion.

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.



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FIRST AID MEASURE

(raw material)

First aid for eyes: flush eyes with water, get medical attention if irritation persists.

First aid for skin: wash exposed skin with soap and water.

First aid for inhalation: remove to uncontaminated area.

First aid for ingestion: if large amount is swallowed, get medical attention.

FIRE FIGHTING MEASURES:

Flash point: N/A

Flammable limits: Upper explosive limit (uel)%: N/A

Lower explosive limit (lel)(%): N/A

Extinguishing media: In finish form, parts are not combustible

Special fire fighting procedures: None

STABILITY AND REACTIVITY DATA

Stability: Epoxy Resin coatings are stable.

Hazardous polymerization: will not occur

Condition to avoid: Avoid generation of fire which presents gas hazards.

Incompatibility: (Materials to Avoid): Acids, high temperature (more than 180°C) .Coating flakes may develop.

TOXICOLOGICAL INFORMATION: None

ECOLOGICAL INFORMATION: None

SPILL OR LEAK PROCEDURE

STEP 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 ARCHES AS BIOHAZARDOUS WASTE.

SPECIAL PROTECTION INFORMATION

Epoxy Resin coating Nickel-Base Alloys in the form shipped require no special protection for handling. For specific processing, the following should be observed:

FIRE REMOTENESS REQUIREMENT: General-Recommended.

SPECIAL PRECAUTIONS



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

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