



MATERIAL SAFETY DATA SHEET

Revised/ Reviewed: December 19, 2007

TIN OXIDE (REF 360-17150, 360-17200, 360-17250, & 360-17300)

Used in dentistry and in combination with water to make a precious metal polishing paste.

Section 1- Product and Company Information

Manufactured for: Miltex, Inc.; 589 Davies Drive, York, PA 17402

Information: 717-840-9335, 717-840-9347 (fax)

Chemical Name & Synonyms: Tin (IV) Oxide, Casserite

Chemical Formula: SnO₂

Section 2 – Composition/ Information on Ingredients

Tin Oxide; CAS # 18282-10-5; 100%; NIOSH PEL (TWA) = 2.0 mg/m³ IDLH – 400 mg/m³

Section 3 - Health Identification

Potential Health Effects:

Ingestion- Considered non-toxic by ingestion; however, ingestion is not recommended.

Eye Contact- This is an abrasive material that can cause mild irritation.

Skin Contact- This is an abrasive material that can cause irritation.

Inhalation- Acute overexposure can cause coughing, choking, and possible irritation to the respiratory tract. Chronic overexposure to dust may result in Stannosis, a form of Pneumoconiosis

Primary Route(s) of Entry: No information available

Carcinogen: No information available

Medical Conditions Aggravated by Exposure: No information available

HMIS Ratings: Not established

Section 4 - First Aid Measures

Eyes: Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Flush affected area with water. If irritation persists, seek medical attention.

Ingestion: Wash mouth out. *Do not* induce vomiting. Seek medical attention.

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration and seek immediate medical attention

Section 5 – Fire Fighting Measures

Material is non-flammable

Extinguishing Media: Use media suitable for the surrounding materials.

Special Fire Fighting Procedures: None known

Unusual Fire and Explosion Hazards: None known

Section 6 - Physical and Chemical Properties

Physical State: Solid (powder)

Appearance and Odor: White or slightly gray powder with no odor.

Melting Point (°C): 1630 Boiling Point (°F): Sublimes 1800 – 1900 (°C)

Specific Gravity (H₂O=1): 6.95

Vapor Pressure (mm Hg): Not applicable

Vapor Density (Air=1): Not applicable

Evaporation Rate (butyl acetate=1): Not applicable

Solubility in Water: Insoluble

pH: No information available

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known

Incompatibility/ Materials to Avoid: Chlorine and Turpentine

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: None known

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: Take precautions to avoid creating and breathing dust. Dampen any spilled material. Collect material by vacuum or shovel and place into disposal container. Neutralizing chemicals are not required.

Waste Disposal Method: Dispose of in accordance with all applicable federal, state, and local regulations.

Ecological, General: No information.

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Safety glasses at a minimum.

Respiratory Protection: If threshold limit is exceeded, a NIOSH-approved respirator.

Ventilation Recommendations: Local to avoid inhaling dust.

Skin Protection: Gloves sufficient to prevent excessive or repeated skin contact

Other: Long sleeve shirts or coveralls to minimize skin contact.

Section 10 – Storage and Handling

Storage: Store in a cool, dry place. Avoid contact with water.

Handling: Avoid creating dust.

Section 11 – Miscellaneous

Toxicological Information: No information available

Transportation Information: *Not* a US DOT Hazardous Material

Other: *Not* defined as a hazardous waste under 40CFR §261 of RCRA.

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