



MATERIAL SAFETY DATA SHEET

Revised/ Reviewed: January 3, 2007

MODELING COMPOUND

Dental impression compounds used for mouth impressions and indirect inlay procedures.

Section 1- Product and Company Information

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

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

Chemical Name & Synonyms: Miscellaneous wax blend

Chemical Formula: No information, material is a mixture

Section 2 – Composition/ Information on Ingredients

- Crystalline Silica; CAS # 14808-60-7; 35-40%; OSHA PEL (TWA) = $(10 \text{ mg/m}^3) / \text{SiO}_2 + 2$, ACGIH TLV = 0.1 mg/m³ (respirable)
- Cumar R-12a Resin; 30-35%; No information available on threshold values

Section 3 - Health Identification

Potential Health Effects: This material is a mixture of waxes and resins. Fumes from material may irritate eyes and upper respiratory tract. Molten material may burn skin and eyes on contact. No expected to be a health hazard if ingested.

Primary Route(s) of Entry: Inhalation (of fumes), skin and eye contact (with molten material)

Carcinogen: No information available

Medical Conditions Aggravated by Exposure: No information available

HMIS Ratings: Not established

Section 4 - First Aid Measures

Eyes: If molten material contacts eye, immediately flush with water for at least 15 minutes.

Immediately seek medical attention.

Skin: If molten material contacts skin, immediately drench or immerse area in water to assist cooling.

Apply iced water or ice packs to burned area. *Do not try to remove the material from a burn until after it has cooled!* Seek medical attention.

Ingestion: No expected to pose a health hazard if ingested.

Inhalation: For inhalation of fumes, remove person to fresh air.

Section 5 – Fire Fighting Measures

Flash Point: Approximately 550°F

Auto Ignition Temperature: No information available

Flammable Limits: No information available

Extinguishing Media: Foam, carbon dioxide, or dry chemical. Use of direct water stream is not recommended

Special Fire Fighting Procedures: Do not enter confined fire-spaces without NIOSH-approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Dense smoke may be generated while burning. Carbon oxides may be given off.

Section 6 - Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: Reddish brown with a very faint vanilla scent. Material may be in cake, stick (cylinder) or lump (chunk) form.

Melting Point (°C): High heat variety = 130, Low heat variety = 115

Specific Gravity (H₂O=1): 1.66 - 1.68

Evaporation Rate (butyl acetate=1): <0.01

Vapor Pressure (mm Hg): Not applicable

Solubility in Water: Negligible

Vapor Density (Air=1): Not applicable

pH: Not applicable

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: None known

Incompatibility/ Materials to Avoid: None known

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Carbon oxides and other oxides may be generated as products of combustion.

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: For solids, sweep up and dispose of by normal means. For molten spills, allow to solidify, then sweep up and dispose by normal means.

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

Ecological, General: This material is not expected to be harmful to the environment.

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Chemical safety goggles when working with molten material.

Respiratory Protection: None normally required.

Ventilation Recommendations: When working with molten material, local is recommended to evacuate any fumes that may be generated.

Skin Protection: Impervious gloves when working with molten material.

Other: Lab coat or other clothing as needed to prevent skin contact. An eyewash and safety shower should be available when working with molten material.

Section 10 – Storage and Handling

Storage: No special storage requirements.

Handling: Minimize breathing of any fumes given off from molten material. Avoid contact with molten material. Do not make this material into a fine (respirable) dust.

Section 11 – Miscellaneous

Toxicological Information: No information available

Transportation Information: Not a DOT Hazardous Material

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