

DENTAL
3-13

Miltex

MATERIAL SAFETY DATA SHEET

Revised or Reviewed: September 16, 2005

PUMICE (CAS # 1332-09-8)

REF 568-70690, 568-70750, 568-70810, 568-70870, 569-70830,
569-70850, 570-70710, 570-70890, 570-70770, 571-70730, and 571-70790

A mild abrasive used in dentistry for polishing and prophylaxis.

Section 1- Product and Company Information

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

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

Common Names & Synonyms: Volcanic glass

Chemical Formula: $M_xO_y + SiO_2$ (M=Al, Ca, Mg + other minor metal oxides, with bound silica (SiO₂)).

Section 2 – Composition/ Information on Ingredients

No hazardous ingredients. Major component is Amorphous Silicon Dioxide. Material also contains complex silicates or oxides of Al, K, Na, Fe, Ca, Mg, and Ti.

Section 3 - Health Identification

Potential Health Effects: Classified as a nuisance dust. In extreme exposures, some congestion may occur. Product is a transitory upper respiratory irritant. Inhalation of high levels of any nuisance dust over long periods of time may cause lungs to be more vulnerable to pneumoconiosis (lung disease).

Primary Route(s) of Entry: Inhalation- No; Skin- No; Ingestion- Non-hazardous

Carcinogen: NTP Program- No; OSHA Program- No; IARC Program- Volume 68 (1997) Silica- group 3 (not classifiable as to carcinogenicity to humans)

Medical Conditions Aggravated by Exposure: Pre-existing upper respiratory and lung disease such as, but not limited to, Emphysema and Asthma.

Acute Health Effects: Transitory upper respiratory irritant.

HMIS Ratings: Health = 0; Flammability = 0; Reactivity = 0; PPE = use approved dust mask, goggles to prevent eye irritation.

Section 4 - First Aid Measures

Material is non-poisonous.

Eyes: Flush with copious amounts of water for 15 minutes. If irritation persists, consult a physician.

Inhalation: Blow nose, rinse mouth, and drink water to clear throat. Remove to fresh air.

Section 5 – Fire Fighting Measures

Material is non-flammable

Section 6 - Physical and Chemical Properties

Appearance and Odor: An off-white powder with no odor.

Melting Point (°C): Not applicable

Evaporation Rate (butyl acetate=1): Not applicable

Specific Gravity (H₂O=1): 2.35

Solubility in Water: Negligible

Vapor Pressure (mm Hg): Not applicable

pH: Not applicable

Vapor Density (Air=1): Not applicable

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: No special conditions

Incompatibility/ Materials to Avoid: No incompatibilities (reacts with hydrofluoric acid)

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: May react with hydrofluoric acid to form toxic silicon tetrafluoride gas.

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: Vacuum clean spillage. If sweeping is necessary, use a dust suppressant.

Waste Disposal Method: Bury as non-toxic in an approved landfill in accordance with all applicable federal, state, and local regulations.

Ecological, General: This product is a naturally occurring material that is not expected to be harmful to the environment.

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Goggles recommended

Respiratory Protection: Use an approved dust mask, such as a particulate filter respirator.

Ventilation Recommendations: Local exhaust recommended

Protective Gloves: Not required

Other: Not required.

Section 10 – Storage and Handling

Storage: No special precautions

Handling: Use techniques that minimize generating dust. Avoid vigorous shaking of bags. Clean clothes with a vacuum hose, not by blowing off. Use filter-equipped vacuum to remove dust; do not blow off dust with compressed air. Material, when wet, may be slippery on a smooth surface; use caution.

Section 11 – Miscellaneous

Toxicological Information: No information available

Transportation Information: Not a DOT Hazardous Material

Other:--

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