

EXHIBIT 8

DigitalFire.Com Library, Bentonite Toxicity

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### Bentonite Toxicity

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## Bentonite Toxicity

Bentonite is a ground naturally occurring clay. It is inorganic, non-toxic, non-irritating. It is not considered hazardous on skin contact (it is employed in cosmetics and skin products as a suspender). Eye contact hazards are similar to those of any other clay, flush to remove the particles.

As a natural clay product it contains

Lead and Ceramics  
 Lead Chromate  
 Lead in Ceramic Glazes: What Did We Learn?  
 Lead in Frits: The Hazards  
 Lithium Carbonate Toxicity  
 Lithium in Ceramics  
 Man-Made Vitreous Fibers  
 Manganese and Parkinsons by Jane Watkins  
 Manganese in Clay Bodies  
 Manganese Inorganic Compounds Toxicology  
 Manganese Toxicity by Elke Blodgett  
 Manganese: Creativity and Illness by Dierdre O'Reilly  
 Molybdenum Compounds Toxicology  
 New Record  
 Nickel Compounds Toxicity  
 Niobium Oxide Toxicity  
 Occupational Dermatoses  
 Overview of Material Safety by Gavin Stairs  
 Paraffin Toxicology  
 Perlite  
 Plant Ash Toxicity  
 Poly Rubber  
 Potassium Carbonate Toxicity  
 Pregnancy and Ceramics  
 Propane Toxicology  
 Quartz Toxicity on Clayart  
 Quartz, Crystalline Silica Toxicity  
 Rare Earth Compounds Toxicity  
 Refractory Ceramic Fibers  
 Rubidium and Cesium Toxicology  
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 Silicosis and Screening  
 Silver Compounds Toxicology  
 Sodium Azide Toxicology  
 Sodium Carbonate Toxicology  
 Sodium Silicate Powder Toxicology  
 Stannous Chloride Toxicity  
 Strontium Carbonate Toxicity Note  
 Sulfur Dioxide Toxicity  
 Talc Hazards Overview  
 Talc Toxicology  
 Thallium Oxide Toxicology  
 The Use of Barium in Clay Bodies  
 Thorium Dioxide Toxicity  
 Tin and Inorganic Compounds  
 Titanium Dioxide  
 Tungsten Compounds Toxicology  
 Understanding Acronyms on MSDS's  
 Uranium and Ceramics  
 Vanadium and Compounds Toxicology  
 Zeolite  
 Zinc Compounds  
 Zirconium Compounds Toxicity

many trace elements and minerals. It also contains free quartz. Thus the primary hazard to consider is inhalation. While the aluminum silicate bentonite particles are much smaller than those of ball clay or kaolin, it is difficult to say whether this is also true of the quartz particles that may be associated with them (it is the quartz particles that present the inhalation hazard).

Bentonite is normally employed in very small amounts in glaze and clay body mixes (typically less than 3%) and only a small part of this is free quartz. However the free quartz is potentially finer it therefore more likely to become airborne.

### Out Bound Links

- (Hazards) Ball Clay  
Hazards of using ball clays in ceramics.
- (Hazards) Quartz, Crystalline Silica Toxicity  
Overview of quartz hazards in the ceramic industry and process

### In Bound Links

- (Materials) Bentonite  
Montmorillonite, Bentonite USA

By *Tony Hansen*



Zirconium Encapsulated Stains

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## Feedback, Suggestions

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