



## Safety Data Sheet

### Section 1: Identification

Trade Name and Synonyms: Bentonite Clay (100%)

Company: Soapgoods Inc

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Phone: (404) 924-9080

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Emergency Phone: (404) 924-9080

Formula: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron

### Section 2: Hazard(s) Identification

Chemical Name: Bentonite Clay (100%)

Chemical Family: Natural Mineral, Montmorillonite

CAS No: 1302-78-9 (Bentonite is on the TSCA inventory)

Formula: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron

NFPA/HMIS: Health - 1\*, Fire - 0, Reactivity - 0, Specific Hazard - See Section VI.

DOT Class: Not Regulated

HAZARDOUS COMPONENTS: OSHA PEL ACGIH TLV NIOSH REL %

(Specific Chemical Identity: (TWA) (TWA) (TWA) (optional)

Common Name(s))

Quartz: CAS# 14808-60-7 - - - -

(naturally occurring constituent)

Respirable Quartz: 0.1 mg/m<sup>3</sup> 50 ug/m<sup>3</sup> 50 ug/m<sup>3</sup> < 2%

Nuisance Dust - Respirable: 5 mg/m<sup>3</sup> 3 mg/m<sup>3</sup> - -

Total Dust: 15 mg/m<sup>3</sup> 10 mg/m<sup>3</sup> - -

OSHA PEL - OSHA Permissible Exposure Limit, 8 hour Time-Weighted Average

ACGIH TLV - American Conference of Governmental Industrial Hygienists

Threshold Limit Value, 8 hr. TWA, 40 hr. week

NIOSH REL - National Institute for Occupational Safety and Health,

Recommended Exposure Limit, 10 hr. TWA, 40 hr. week

\* **WARNING:** This product contains a small amount of quartz that may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for quartz may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 68, 1997) concludes that quartz is carcinogenic to humans (IARC classification 1).

Note: The Permissible Exposure Limits (PELs) reported above are the pre-1989 limits that were reinstated by OSHA June 30, 1993 following a decision by the United States Circuit Court of Appeals for the 11th Circuit. Federal OSHA is now enforcing these PELs.

More restrictive exposure limits may be enforced by some other jurisdictions.

National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/ m<sup>3</sup>) as determined by a full shift sample up to a 10 hour working day, 40 hours per week. See: 1974 NIOSH criteria for a recommended Standard for Occupational Exposure to Crystalline Silica for more detailed information.

### **Section 3: Composition/Information on Ingredients**

Formula: Naturally occurring hydrated aluminosilicate of sodium, calcium, magnesium, and iron

### **Section 4: First-Aid Measures**

Emergency and First Aid Procedures:

Eye Contact - Flush the eyes immediately with large amounts of water, lifting the upper and lower lids occasionally. If irritation persists or for embedded foreign body, get immediate medical attention

Gross Inhalation - Remove to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get prompt medical attention.

Skin Contact - No first aid should be needed since this product does not affect the skin. Wash exposed skin with soap and water before breaks and at the end of the shift.

Ingestion - If large amounts are swallowed, get immediate medical attention.

## **Section 5: Fire-Fighting Measures**

Flash Point (Method Used) - Not Applicable

Extinguishing Media - Not Applicable

Flammable Limits - Not Applicable LEL - Not Applicable

UEL - Not Applicable

Special Fire Fighting Procedure - Inorganic mineral - non-flammable

Unusual Fire/Explosion Hazards - None known

## **Section 6: Accidental Release Measures**

Steps to be Taken in Case Material is Released or Spilled: Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water; product will become slippery when wet. Waste Disposal Method - Follow federal, state and local regulations for solid waste.

## **Section 7: Handling and Storage**

Handling and Storing Precautions: Do not breathe dust. Use normal precautions against bag breakage or spills of bulk material.

Avoid creation of respirable dust. Use good housekeeping in storage and use areas to prevent accumulation of dust in work areas. Use adequate ventilation and dust collection. Maintain and use proper, clean respiratory equipment. Launder clothing that has become dusty. Empty containers (bags, bulk containers, storage tanks, etc.) retain silica residue and must be handled in accordance with provisions of this Material Safety Data Sheet. Warn and Train employees in accordance with state and federal regulations.

Other Precautions: Slippery when wet.

WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS - USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARDS AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT OSHA PRECAUTIONS.

## **Section 8: Exposure Controls/Personal Protection**

Respiratory Protection: Use appropriate respiratory protection for respirable particulate based on consideration of airborne workplace concentration and duration of exposure arising from intended end use. Refer to the most recent standards of ANSI (Z88.2) OSHA (29 CFR

1910.134), MSHA (30 CFR Parts 56 and 57) and NIOSH Respirator Decision Logic.

Ventilation: Use local exhaust as required to maintain exposures below applicable occupational exposure limits (See Section II).

See also ACGIH "Industrial Ventilation - A Manual for Recommended Practice", (current edition).

Protective Gloves: Recommended.

Eye Protection: Safety glasses or goggles recommended.

Other Protective Clothing or Equipment: As appropriate for work environment. Dusty clothing should be laundered before reuse.

Transportation Data: U.S. DOT Hazard Classification

Proper Shipping Name: Not regulated

Technical Name: N/A

UN Number: N/A

Hazard Class/Packing Group: N/A

Labels Required: None

DOT Packaging Requirements: N/A

Exceptions: N/A

## **Section 9: Physical and Chemical Properties**

Boiling Point: - Not Applicable

Specific Gravity (Water = 1.0) - 2.5

Vapor Pressure (mm Hg.) - Not Applicable

Melting Point - Not Applicable

Vapor Density (Air = 1.0) - Not Applicable

Evaporation Rate (Butyl Acetate = 1.0) - Not Applicable

Solubility in Water - Negligible

Appearance and Odor - Pale gray to buff powder or granules, odorless

## **Section 10: Stability and Reactivity**

Stability - Stable

Conditions to Avoid - None Known

Incompatibility (Materials to Avoid) - None Known

Hazardous Decomposition or By-products - None Known

Hazardous Polymerization - Will Not Occur

Conditions to Avoid - None Known

## **Section 11: Toxicological Information**

This product is a chemically inert, non-combustible mineral. A single exposure will not result in serious adverse effects. Excessive occupational, uncontrolled inhalation of dust may cause lung disease, silicosis, with symptoms of shortness of breath and reduced pulmonary function.

Route(s) of Entry: Inhalation? Yes Skin? No Ingestion? No

Health Hazards (Acute and Chronic): May cause delayed respiratory disease if dust inhaled over a prolonged period of time.

Inhalation: Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring.

Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Inhalation of dust may have the following serious chronic health effects:

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1 - carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibers (published in June 1997) in conjunction with the use of these materials.

The National Toxicology Program classifies respirable crystalline silica as a known human carcinogen. For further information See: "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, page 761-765, 1997.

Skin Contact: No adverse effects expected

Eye Contact: Contact may cause mechanical irritation and possible injury

Ingestion: No adverse effects expected for normal, incidental ingestion

Chronic Health Effects: See "Inhalation" subsection above with respect to silicosis, cancer status and other data with possible relevance to human health.

Signs and Symptoms of Exposure: There are generally no signs or symptoms of exposure to crystalline silica. See "Inhalation" subsection above for symptoms of silicosis.

Medical Conditions Generally Aggravated by Exposure: Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation should not be exposed to crystalline silica dust.

### **Section 12: Ecological Information**

Not Applicable

### **Section 13: Disposal Considerations**

Waste Disposal Method - Follow federal, state and local regulations for solid waste.

### **Section 14: Transport Information**

Transportation Data: U.S. DOT Hazard Classification

Proper Shipping Name: Not regulated

Technical Name: N/A

UN Number: N/A

Hazard Class/Packing Group: N/A

Labels Required: None

DOT Packaging Requirements: N/A

Exceptions: N/A

### **Section 15: Regulatory Information**

SARA 311/312: Hazard Categories for SARA Section 311/312 Reporting:

Chronic Health

SARA 313: This product contains the following chemicals subject to annual release reporting requirements under the SARA section 313 (40 CFR 372):

None

CERCLA Section 103 Reportable Quantity: None

California Proposition 65: This product contains the following substances known to the state of California to cause cancer and/or reproductive harm: crystalline silica (respirable).

Toxic Substances Control Act: All of the components of this product are listed on the EPA TSCA Inventory or are exempt from notification requirements.

European Inventory of Commercial Chemical Substances: All the components

of this product are listed on the EINECS Inventory or exempt from notification requirements. (The EINECS number for Quartz: 231-545-5)  
Canadian Environmental Protection Act: All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Japan MITI: All the components of this product are existing chemical substances as defined in the Chemical Substance Control Law

Australian Inventory of Chemical Substances: All the components of this product are listed on the AICS Inventory or exempt from notification requirements.

Canadian WHMIS Classification: This product contains crystalline silica (respirable), classified as a Class D, Division 2, Subdivision A substance.

European Community Labeling Classification: Harmful (Xn)

European Community Risk and Safety Phrases: R40, R48, S221.ujgh

REFERENCES: Registry for Toxic Effects of Chemical Substances (RTECS), 1995.

Patty's Industrial Hygiene and Toxicology.

NTP Ninth Annual Report on Carcinogens, 1997.

IARC Monograph Volume 68, Silica, Some Silicates and Organic Fibers, 1997.

## **Section 16: Other Information**

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Review Date: December 2015