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MATERIAL SAFETY DATA SHEET BENTONITE CLAY

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: BENTONITE CLAY, SODIUM or CALCIUM TYPE

Product Use: Personal Care Formulations

Company Name: Natural Sourcing

Company Address: 341 Christian Street, Oxford, CT 06478, USA

Date Issued: 04/11/2013

Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Natural mineral, raw material, montmorillonite.

Ingredients: Naturally occurring hydrated aluminosilicate of sodium,

calcium, magnesium, and iron.

Preservatives & Solvents: None Other Gases & Liquids: None

Other Solids: Respirable crystalline silica (CAS #s 7631-86-9 and

14808-60-7). Estimated quantity less than 2%.

CAS #: 1302-78-9

3. HAZARDS IDENTIFICATION

Eyes: Mechanical irritant

Skin: Possible drying resulting in dermatitis

Ingestion: Not expected to be a hazard

Short term exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough.

Chronic exposure to free silica contain in airborne bentonite

Inhalation: dust where levels are higher than TLVs may lead to

development of silicosis or other respiratory problems.

Persistent dry cough and labored breathing upon exertion are

symptomatic.

To use in complete safety, respect exposure limits.

Dampening the floor while cleaning a clay storage site may render it extremely slippery. Dry cleaning is recommended if

people are required to continue working on the site.

4. FIRST AID MEASURES

Risk of Slips/Falls:

Eyes: Flush with plenty of water or eye wash solution for 15 minutes.

Get medical attention if irritation persists.

Skin:

Due to its use in cosmetics, no adverse effects are expected.

May dry mucous and skin. Wash with soap and water.

Ingestion: No information

Remove to fresh air. If symptoms of irritation persist, seek Inhalation:

medical advice. Inhalation may aggravate respiratory illness. Individuals with pulmonary and/or respiratory disease, including

Medical Conditions Generally

Aggravated by Exposure:

but not limited to asthma and bronchitis should be precluded

from exposure to dust.

5. FIRE FIGHTING MEASURES

Extinguishing Media: N/A Special Firefighting Procedures: N/A Unusual Fire & Explosion Hazards: N/A HMIS Rating: 0

Note: Will not burn

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Avoid breathing dust. Wear respirator approved for silica Precautions: bearing dust. Vacuum up to avoid generating airborne dust.

Avoid using water. Slippery when wet.

Dispose of in accordance with Federal, State and Local

Disposal:

Regulations.

7. HANDLING AND STORAGE

Handling

Avoid dust formation. Provide appropriate ventilation where Safe Handling: dust forms. In the event where there is insufficient ventilation

wear suitable respirator approved for silica bearing dust.

Storage

Ventilation:

Requirements for Storage Areas and

Containers:

Store in closed containers below 30°C in well ventilated areas.

Very slippery when wet.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respect the regulatory provisions for dust (inhalable and **Exposure Value Limits:**

breathable) and crystalline silica.

Safety glasses should be worn. Eye:

Skin/Body: Gloves should be worn.

Use NIOSH/MSHA approved respirators for silica bearing dust. Respiratory:

Provide appropriate ventilation and filters in places where dust

may be generated.

Evaluate need based on application. Slip proof shoes may be Other:

worn where spills may occur.

Work/Hygiene Practice: Normal work and hygiene practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Color: Grey

Odor: Characteristic Solubility in Water: Insoluble

Vapor Density: Heavier than air. Specific Gravity: 2.45-2.6

10. STABILITY AND REACTIVITY

Stability: Stable N/A

Incompatibility (Materials to Avoid):

Hazardous Decomposition or

N/A

Byproducts:

N/A

Conditions to Avoid:

11. TOXICOLOGICAL INFORMATION

Exposure Limits: OSHA PEL @ 8 hr.

TWA)

15 mg/m3 (total dust) 5 mg/m3 (respirable dust)

Reparable crystalline silica: 0.1 mg/m3

Prolonged or high exposure to respirable dust may cause Signs & Symptoms of Exposure:

shortness of breath and other respiratory effects. The international agency for research on cancer has determined that crystalline silica inhaled in the form of quartz

or crystobalite in conjunction with the use of these materials from occupational sources is carcinogenic to humans. (Group 1 - carcinogenic to humans) (Refer to IARC monograph 68, Silica, some silicates and organic fibers published June 1997).

The National Toxicology Program classifies respirable crystalline silica as "reasonable anticipated to be a

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, pages 761-765, 1997.

The small quantities of crystalline silica (quartz) found in this material are, under normal conditions, naturally coated with an unremovable layer of amorphous silica and/or clay. IARC (Vol 68, 1997, pp 191-192) states that crystalline silica (quartz) can differ in toxicity depending on the minerals with which it is combined, citing studies in IARC (Vol 42, 1987, p 86) which states that the toxic effect of crystalline silica

clay minerals....".

Medical Conditions Generally Aggravated by Exposure:

Individuals with pulmonary and/or respiratory disease, including but not limited to asthma and bronchitis should be

(quartz) is reduced by the protective effect.... Due mainly to

precluded from exposure to dust.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Carcinogenicity:

No known ecological hazards are associated with this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Dispose of according to local, state and federal regulations, and in a manner that does not pose a risk due to emission of breathable dust.

14. TRANSPORT INFORMATION

DOT Classification:

Not a DOT Hazardous substance.

15. REGULATORY INFORMATION

No Information

16. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.