SAFETY DATA SHEET: BENTONITE

1. IDENTIFICATION

Product Name: BENTONITE
Synonyms: 
Formula and Formula Weight: Undefined NA
Integra numbers beginning with: B322.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

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24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

2. HAZARDS IDENTIFICATION

OSHA Classification: None identified
Hazard Category: Not applicable
Hazard Statement: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Bentonite
Synonyms: Montmorillonite
CAS #: 01302-78-9
% Weight: 100

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin Contact: Wash with soap and water.
Ingestion: If conscious, rinse mouth and give victim large amounts of water. Seek medical attention.
Additional notes: Symptoms and effects include eye, respiratory irritation; intestinal obstruction.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: High dust concentrations may ignite in the presence of an ignition source.
Hazardous combustion products: May liberate toxic and noxious fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Prevent spread of spill. Sweep or scoop into suitable disposal container.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong acids and strong oxidizers.
Storage and Handling: Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers tightly closed and protect them from physical damage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:
Bentonite None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety glasses.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow or green, cream, pink, or gray to black powder
Odor: Not available
Odor Threshold: Not available
pH: 6 to 9
Melting/Freezing Point: >1200 °C
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available

OSHA SDS #: 25211 rev 101 3/27/2015  BENTONITE
Flammability: Not flammable
Flammable or Explosive: Upper: Not available
Limits (% by volume in air): Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 2.4 g/cc
Solubility: Insoluble in water
Partition Coefficient: n-octanol/water: Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: None identified
Incompatibles: Incompatible with strong acids and strong oxidizers
Decomposition Products: May liberate toxic and noxious fumes.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: As with most nuisance dusts, inhalation of large quantities, or prolonged inhalation, may irritate the respiratory system.
Skin Contact: No harmful effects expected
Eye Contact: Dusts may cause some eye irritation.
Ingestion: Ingestion of small amounts is not likely to produce harmful effects. Ingestion of large amounts may result in intestinal obstruction.
Chronic Effects: Pneumoconiosis may result from repeated inhalation of large quantities. Chronic ingestion of large quantities has caused liver tumors in mice.
Target Organs: None identified
Additional Effects: None identified
Reproductive Effects: None identified
Carcinogenicity: Questionable carcinogen with experimental tumorigenic data.

Toxicity Data:
Bentonite: No information available

12. ECOLOGICAL INFORMATION
Aquatic Toxicity Data: Bentonite LC50 Rainbow trout: 19,000 mg/L - 96h
Terrestrial Toxicity Data: No information available
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS
Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is not a regulated material for domestic ground transporation.

Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Bentonite is listed in the TSCA inventory.

16. OTHER INFORMATION
OSHA SDS #: 25211 rev 101 3/27/2015

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***** END OF SDS *****