

BHS Marketing

Nampa

MATERIAL SAFETY DATA SHEET EXTRA HIGH YIELD GEL (BENTONITE)

Date: January 18, 2001

I Company Identification

Company Name: BHS Marketing / Western Briquette
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II Product Identification

Product Name: Sodium Montmorillonite
Synonyms: Extra High Yield Gel, Wyoming Bentonite
CAS Number: 1318-93-0
Hazardous Material:
Ingredient: Crystalline Silica (SiO₂) CAS Number: 14808-60-7 Hazard: Low concentrations of crystalline silica (SiO₂) in the form of quartz, may be present in airborne bentonite dust

III Typical Physical Properties

Physical Appearance: Bluegray to green as moist solid, light tan to gray as powder
Odor: None
Boiling Point: N/A
Melting Point: Approx. 1450°C
pH: 8-10 (5% aqueous suspension)
Solubility in Water: Insoluble, forms colloidal suspension
Density (@20° C): 55 lbs/cu.ft. as product
Specific Gravity (H₂O=1): 2.45-2.55
Vapor Density: N/A
Vapor Pressure: N/A

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IV Reactivity Data

Chemical Stability: Stable
Materials to Avoid: None
Hazardous
Polymerization: None

V Toxicological Information

Carcinogenicity: Bentonite is not listed by NTP, IARC or OSHA. IARC, 1997, concludes that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources (IARC Class 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or no external factors affecting its biological activity

VI Hazard Data

Acute

Eye Contact: Mechanical irritant
Skin Contact: Possible drying resulting in dermatitis
Ingestion: No adverse effects
Inhalation: Acute (short-term) exposure to dust levels exceeding the PEL may cause irritation of respiratory tract resulting in a dry cough
Chronic (long-term) exposure to airborne bentonite dust containing respirable size ($\leq 10 \mu$) quartz particles, where respirable quartz particle levels are higher than TLV's, may lead to development of silicosis or other respiratory problems. Persistent dry cough and labored breathing upon exertion maybe are symptomatic

Permissible Exposure Limits: (for air contaminants)	OSHA PEL (8 hr. TWA)	ACGIH TLV
Bentonite as "Particulates not otherwise regulated" (formerly nuisance dust)		
Total dust	15mg/m ³	ND
Respirable dust	5mg/m ³	ND
Crystalline Quartz (respirable)	0.1mg/m ³	0.1mg/m ³

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VII Recommended First Aid Measures

Eye Exposure: Flush with water until irritation ceases
Skin Exposure: Wash with soap and water until clean
Inhalation Exposure: Move to area free from dust. If symptoms of irritation persist, contact physician. Inhalation may aggravate existing respiratory illness

VIII Fire Fighting Measures

Flash Point: N/A
Extinguishing Media: None for product. Any media can be used for the packaging. Product becomes slippery when wet
Special Firefighting Procedures: N/A
Unusual Fire and Explosion Hazards: None. Product will not support combustion

IX Accidental Release Measures

Clean up & Disposal of Spills: Avoid breathing dust; wear respirator approved for silica bearing dust. Vacuum up to avoid generating airborne dust. Avoid using water. Product slippery when wetted
Waste Disposal: Product should be disposed of in accordance with applicable local, state and federal regulations
Precautions: Use NIOSH/MSHA respirators approved for silica bearing dust when free silica containing airborne bentonite dust levels exceed PEL/TLV's. Clean up spills promptly to avoid making dust. Storage area floors may become slippery if wetted

X Exposure Controls/ Personal Protection

Appropriate Hygienic Practices: As part of good industrial, personal hygiene and safety procedure, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing. Maintain good housekeeping to control dust accumulations

Personal Protection Equipment

Eye Protection: Generally not necessary. Personal preference
Skin Protection: Generally not necessary. Personal preference

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Respiratory Protection: Use respirators approved by NIOSH/MSHA for silica bearing dust. Avoid prolonged inhalation of airborne dust
Ventilation Protection: Mechanical, general room ventilation. Use local ventilation to maintain PEL's/TLV's
Other Protection: None

XI Additional Information

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

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*n/a= Not Applicable