

Material Safety Data Sheet – Bentonite/Smectite Clay

SECTION 1 – Product Identification

Material: Non-organic clay, 400 Mesh, Smectite Clay

Origin: Western United States, Zoned via Geological Survey (USGS), Pure Clay Vein (Volcanic Origin)

Common Name: Bentonite Clay

INCI Name: Bentonite

Common Synonym: Calcium Montmorillonite, Calcium Bentonite

Sourced: Subterranean, Mined from greater than 6 meters below the earth's surface

Process: Sun Dried, Standard Mill to 400 Mesh, No Chemicals used in Process

Quality Control: Mineralogy Spot Checks: X-Ray Diffraction and/or ICP Mass (Gas) Spectrometry
Standard Microbial Analysis, Radiation Monitoring

Chemical Family: Silicate Dioxide

Formula: SiO_2 CaO MgO K_2O Na_2O H_2O

Mesh: 400

CAS Number: 1302-78-9

HMIS: HO* FO RO

SECTION 2 – Hazardous Ingredients

Classification dictates potential for free silica dioxide. The current OSHA Standard, 8 hour TWA (Respirable Dust) is determined by the formula: $10 \text{ mg/M}_3 / \% \text{SiO}_2 = 2 \text{ or } 50 \text{ mppcf} / \% \text{SiO}_2 + 5$

ACGIH is proposing a TLV of 0.1 mg/M³ (Respirable Dust) or 0.3 mg/M³ (Total Dust)

NIOSH has recommended a Permissible Exposure Level of 0.05 mg/M³

SECTION 3 – Physical Data

Specific Gravity: 2.58

Percent Volatile by Weight: 0

Evaporation Rate: 0

Appearance & Odor: Gray/Green Powder, No Odor

SECTION 4 – Fire and Explosion Hazard

N/A – Non-flammable

SECTION 5 – Health Hazard Data:

Threshold Limit Values: N/A

Effects of Overexposure: N/A

Emergency and First Aid: N/A

SECTIONS 6, 7, 8 & 9 – Reactivity, Spill and Leak Procedures, Special Protection & Special Precautions:

Reactivity: N/A

Spill & Leak Procedures: None

Special Protection & Precautions: None

Inert Substance, Ocean non-pollutant

SECTION 10 - REGULATORY INFORMATION:

DOT Classification: Not Regulated

SARA 313: NONE KNOWN

TSCA : LISTED

EUROPEAN INVENTORY: LISTED

CANADIAN DSL: EXEMPT

AUSTRALIAN AICS: LISTED

JAPANESE ENCS: ENCS 9 1971

CAS: 1302-78-9

ECCN: Ear99

Schedule B (FTD): 2508.10.0000

U.S. Freight Commodity Code: 14511

E.U. Food Additive: E556

Codex/INS: 556

U.S. Freight Class: 55

SECTION 14 – Transportation Information

SHIPPING NAME: Common Ground Clay (NOIBN); Bentonite

HAZZARD CLASS: Not Hazardous

CAUTIONARY LABELING: None required

LAND TRANSPORTATION RESTRICTIONS:

DOT: Not Restricted

CANADIAN TDG: Not Restricted

ADR: Not Restricted

AIR TRANSPORTATION RESTRICTIONS:

ICAO / IATA: Not Restricted

SEA TRANSPORTATION RESTRICTIONS:

IMDG: Not Restricted

Spill & Leak Procedures: None

Special Protection & Precautions: None

Inert Substance, Ocean non-pollutant