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Item #0395-0201
Bentonite Powder

Date Issued: 08/14/2007

SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME: Bentonite Powder

CAS #: 1302-78-9

SYNONYM: Montmorillonite

CHEMICAL FAMILY: Hydrous Aluminum Silicates

SECTION II HAZARDOUS INGREDIENTS

Warning: This clay product contains a small amount of crystalline silica, which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC monographs on the evaluation of the carcinogen risk of chemicals to humans (Volume 68,1996) reclassifies crystalline silica as a class 1 or known carcinogen. NTP has classified crystalline silica as a substance reasonably anticipated to be a carcinogen in its sixth annual report on carcinogens.

SECTION III PHYSICAL DATA

Boiling Point: NA

Specific Gravity: 2.5

Solubility: (In water) Moderate

Vapor Pressure: (mmHg) NA

Vapor Density: NA

Evaporation Rate: 0

% Volatiles by Weight: 0

Appearance & Odor: Pale gray to buff color, odorless.

SECTION III A DEGREE OF HAZARD

Degree of Hazard

4 - Extreme	Flammability	0
3 - High	Health	0
2 - Moderate	Reactivity	0
1 - Slight	Special Hazard	0
0 - Insignificant		

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SECTION IV **FIRE AND EXPLOSION HAZARDS**

Flash Point: Non-flammable

Flammable Limits: LEL: Non-flammable **UEL:** Non-flammable

Extinguishing Media: Not applicable.

Special Firefighting Procedures and Precautions: Not applicable.

Unusual Fire and Explosion Hazards: Not applicable.

SECTION V **HEALTH HAZARD DATA**

Threshold Limit Values:

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV
Crystalline Quartz CAS #: 14808-60-7	--	--
Total Dust (Quartz)	30mg/cu. meter ----- ASiO ₂ +2	3mg/cu. m --
Respirable Crystalline Quartz:	10mg/cu. m ----- ASiO ₂ +2	0.1mg/cu. m TWA
Proposed (TWA)	0.3mg/cu. m	50mg/cu. m TWA
Total Nuisance Dust	15mg/cu. m	10mg/cu. m
Respirable Nuisance Dust	5mg/cu. m	5mg/cu. m

Route(s) of Entry

Inhalation: Yes

Skin: No

Ingestion: No

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

SECTION V**HEALTH HAZARD DATA Cont'd**

Carcinogenicity: IARC monographs on the evaluation of the carcinogenic risk of chemicals to humans (Volume 68, 1996) reclassified crystalline silica as a Class 1 substance or known carcinogen. NTP has classified crystalline silica as a substance reasonably anticipated to be a carcinogen.

Signs & Symptoms of Exposure: Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.

Medical Conditions Generally Aggravated by Exposure: Asthma & bronchitis should be precluded from exposure to dust.

Emergency First Aid Procedures

If in Eyes: Flush with water.

If Inhaled: Remove to fresh air; give oxygen or artificial respiration if necessary; get medical attention.

SECTION VI**REACTIVITY DATA**

Stability: Stable

Incompatibility: NA

Hazardous Decomposition: Forms no hazardous decomposition products.

Hazardous Polymerization: Will not occur.

SECTION VII**SPILL AND DISPOSAL PROCEDURES**

Steps to be taken in the event of a spill or discharge: Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, the product will become slippery when moistened.

Disposal Procedures: Disposal must be made in accordance with federal, state, and local regulations. Be sure to contact appropriate government environmental agencies if further disposal guidance is required. Of the disposal methods currently available, a method should be selected based upon environmental acceptability following the order of preference:

1. Recycle or rework if feasible.
2. Landfill at an approved facility.

SECTION VII**SPILL AND DISPOSAL PROCEDURES Cont'd**

Ecological Information: No harmful effects known other than those associated with suspended inert solids in water.

SECTION VIII**SPECIAL PROTECTION INFORMATION**

Ventilation: Local Exhaust required. Mechanical recommended.

Respiratory Protection: Use of NIOSH/MSHA approved respirator is recommended.

Eye Protection: Optional use of goggles.

Protection Gloves: NA

Other Protective Equipment: NA

SECTION IX**SPECIAL PRECAUTIONS**

Handling & Storage: Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, a NIOSH approved respirator should be employed. Accumulations of Bentonite on walking surfaces will cause very slippery conditions when wet. Store in a dry area at ambient temperature.

Transportation: This material is classified as “non-hazardous” according to US and International shipping regulations.