

Material Safety Data Sheet

Revision Issued: 06/20/2008 Supercedes: 4/30/1999 First Issued: 10/08/1993

Section I - Chemical Product And Company Identification

Product Name: Hillbest 400

CAS Number: N/A

HBCC MSDS No. CH03551



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Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	Exposure Limits (TWAs) in Air		
		ACGIH TLV	OSHA PEL	STEL
Bentonite	1302-78-9	N/A	N/A	N/A
Saponite	1319-41-1	N/A	N/A	N/A
Hectorite	12173-47-6	N/A	N/A	N/A

Section III - Hazard Identification

Routes of Exposure: Inhalation

Summary of Acute and Chronic Health Hazards: May be harmful if inhaled in sufficient quantities. Prolonged exposure to Smectite Clay dust may cause a relatively benign lung disease, though there is a risk of the development of massive fibrosis. Repeated and prolonged exposure to respirable crystalline quartz which may be contained in Smectite Clay dust may cause delayed (chronic) lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death. Acute, or rapidly developing silicosis has not been observed in Smectite Clay dust exposures.

Ingestion: N/A

Inhalation: Nuisance dusts have little adverse effect on lungs and do not produce significant disease or toxic effect when exposures are kept to a minimum. May aggravate pre-existing respiratory conditions.

Skin: N/A

Eyes: N/A

Signs and Symptoms of Exposure: N/A

Effects of Overexposure: Nuisance dust, avoid chronic inhalation.

Medical Conditions Generally Aggravated by Exposure: Pulmonary function may be reduced by inhalation of respirable crystalline silica that may be contained with Smectite Clay dust. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

Note to Physicians: N/A

Section IV - First Aid Measures

Ingestion: N/A

Inhalation: Remove to fresh air. GET MEDICAL ATTENTION.

Skin: Wash with soap and water.

Eyes: Irrigate immediately with plenty of water. Obtain medical attention if necessary.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: N/A

Extinguishing Media: Will not support combustion

Special Firefighting Procedures: None

Section VI - Accidental Release Measures

Spilled powder may be shoveled or vacuumed. Wear respirator or dust mask to avoid inhalation of dust. Wet material may be very slippery.

Section VII - Handling and Storage

Practice reasonable care and caution. Avoid breathing dust if generated. Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment. Wash or vacuum clothing which has become dusty.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection:

RESPIRATORY PROTECTION FOR CRYSTALLINE SILICA MINIMUM RESPIRATORY PROTECTION

Particulate Concentration:

5 x PEL or less: Any dust respirator.

10 x PEL or less: Any dust respirator, except single-use or quarter-mask respirator. OR Any dust respirator, except single-use or quarter-mask respirator. OR Any supplied-air respirator. OR Any self-contained breathing apparatus.

50 x PEL or less: A high efficiency particulate filter respirator with a full facepiece. OR Any supplied-air respirator with a full facepiece, helmet, or hood. OR Any self-contained breathing apparatus with a full facepiece.

500 x PEL or less: A Powered air-purifying respirator with a high efficiency particulate filter. OR A Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.

Greater than 500 x PEL or entry and escape from unknown concentrations:

Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. OR A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

Ventilation: N/A

Protective Clothing: Gloves are recommended.

Eye Protection: Safety glasses are recommended.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Avoid chronic inhalation of dust. Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Solid

pH: N/A

Melting Point/Range: N/A

Boiling Point/Range: More than 1000°F

Appearance/Color/Odor: White, light gray, tan, or reddish tan, granular or powder. Earthy odor when wet.

Solubility in Water: Insoluble in water

Vapor Pressure(mmHg): N/A

Specific Gravity(Water=1): 1.57 – 1.60

Molecular Weight: N/A

Vapor Density(Air=1): N/A

% Volatiles: < 10% by Volume

How to detect this compound : Visual

Section X - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Materials to Avoid: None

Conditions to Avoid: Avoid chronic inhalation of dust.

Hazardous Decomposition Products: N/A

Section XI - Toxicological Information

N/A

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

May be disposed of in a secured sanitary landfill. Disposal must be done in accordance with local, state, and Federal regulations.

Section XIV - Transport Information

DOT Proper Shipping Name: N/A

DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

WARNING

This product contains crystalline silica, a chemical known to the State of California to cause cancer.

Reportable Quantity: N/A

NFPA Rating: Health - 1; Flammability - 0; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: No **NTP:** No **IARC Monograph:** Yes **OSHA Regulated:** No

OSHA PEL: Classified as a nuisance dust when less than 1% crystalline silica is present PEL=5.00 mg/m³ (respirable). If greater than 1% crystalline silica, then exposures shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR § 1910.1000 Table Z-1-A for air contaminants, specifically: Silica; Crystalline Quartz (Respirable) 0.1 mg/m³.

ACGIH TLV: Classified as a nuisance dust when less than 1% crystalline silica, TLV-TWA = 10 mg/m³ (Total Dust), 5 mg/m³ (Respirable). If greater than 1% crystalline silica, the TLV-TWA = 0.1 mg/m³ (respirable crystalline quartz).

Section XVI - Other Information

Synonyms/Common Names: Smectite Clay

Chemical Family/Type: N/A

Sections Changed Since Last Revision: III, VII, VIII, IX, XV

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.