

# Medium Bed Premium *Material Safety Data Sheet*

## 1. Product and Company Information:

Product Name: Medium Bed Premium

Manufacturer: Bonded Materials Company  
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 Phoenix, Arizona 85031, USA  
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## 2. Hazards Identification

### Emergency Overview

Color: White or Gray  
 Physical State: Powder  
 Odor: Low Odor

**Primary Routes of Entry:** Inhalation, Skin Contact, Eye Contact, Ingestion

**Eye Contact:** Irritant, severe eye irritation. May cause eye injury. Effect may be delayed

**Skin Contact:** Contains Portland cement and exposure to dry Portland cement may cause drying of skin with consequent irritation. Prolonged contact with wet Portland cement may cause severe, potentially irreversible damage to the skin in the form of chemical (caustic) burns.

**Skin Absorption:** NA

**Inhalation:** Dust can cause inflammation of interior of nose and eyes. Prolonged exposure to dust over the TLV may cause scarring of the lungs and delayed lung injury (silicosis).

**Ingestion:** If accidentally ingested, mortar may set and cause bowel obstruction – consult physician.

**Chronic/Carcinogenicity Effect:** Contains silica sand, known Human Carcinogen (category 1). May contain traces of chemicals on California Proposition 65 list.

## 3. Composition Information

Component	CAS No.	Percent	ACGIH TLV	OSHA PEL	OTHER
Calcium Carbonate	1317-65-3	1-5%	10mg/m <sup>3</sup>	15mg/m <sup>3</sup>	NA
Calcium Hydroxide	1305-62-0	1-10%	10mg/m <sup>3</sup>	5mg/m <sup>3</sup>	NA
Portland Cement	65977-15-1	30-40%	10mg/m <sup>3</sup>	50 mppcf	NA
Silica Sand	14808-60-7	50-65%	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	NA
Vinyl Co-Polymer	not established	1-5%			NA

## 4. First-aid Measures

**Eye Contact:** Flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for several minutes. Irritant, severe eye irritation. May cause eye injury. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

**Skin Contact:** Contains Portland cement and exposure to dry Portland cement may cause drying of skin with consequent irritation. Prolonged contact with wet Portland cement may cause severe, potentially irreversible damage to the skin in the form of chemical (caustic) burns Wash exposed skin areas with soap and water

**Inhalation:** move person to fresh air, if effects occur, consult physician

**Ingestion:** If accidentally ingested, mortar may set and cause bowel obstruction – consult physician.

**Notes to Physician:** Signs and symptoms of exposure are shortness of breath, coughing, reddening of eyes

## 5. Fire Fighting Measures

Extinguishing Media: Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguisher.

Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective clothing (includes fire fighting helmet, coat, trousers, boots and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Special Fire Fighting Procedures: NA

Unusual Fire and Explosion Hazards: NA

Hazardous Combustion Products: NA

## 6. Accidental Release Measures

Released or Spilled: Collect spills using dustless method, material can be returned to container for later use, wear NIOSH/OSHA approved respirator for silica dust when cleaning area. Wear appropriate equipment to prevent skin and eye contact.

## 7. Handling and Storage

Store in covered, dry area.

Avoid creating dust. Avoid breathing dust.

Use only with adequate ventilation.

## 8. Exposure Controls / Personal Protection

Component	TYPE	Value
Calcium Carbonate	TWA Total Dust	15mg/m <sup>3</sup>
Calcium Hydroxide	TWA Total Dust	5mg/m <sup>3</sup>
Portland Cement	TWA Total Dust	50 mppcf
Silica Sand	TWA Total Dust	0.1mg/m <sup>3</sup>
Vinyl Co-Polymer	TWA Total Dust	10mg/m <sup>3</sup>

### Personal Protection

Eye/Face Protection: Use safety glasses. If there is potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin Protection: Barrier cream, boots and clothing should protect skin from dust and wet mortar.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator for silica dust

Ingestion: Use good personal hygiene. Do not consume or store food in the work areas. Wash hands before smoking or eating.

Work/Hygienic Practices: Workers should shower with soap and water after working with mortar.

### Engineering Controls

Ventilation: Use with adequate ventilation

## 9. Physical and Chemical Properties

Physical State: Powder  
Color: Gray or White  
Odor: Low Odor  
Flash point: NA  
Flammable limits in Air Lower (LEL): NA Upper (UEL): NA  
Autoignition Temperature: NA  
Vapor Pressure: NA  
Boiling Point (760mmHg): NA  
Vapor density (air=1): NA  
Specific Gravity (H<sub>2</sub>O =1): 2.7  
Freezing point: NA  
Melting point: NA  
Solubility in water (by weight): <1%  
pH: 10-13 in water  
Kinematic Viscosity: NA

## 10. Stability and Reactivity

Stability/Instability: Stable  
Conditions to Avoid: Keep dry until used  
Incompatibility Materials: Contains Portland Cement when wet is highly alkali. As a result it is incompatible with acids, ammonium salts, aluminum and other alkali and alkaline earth metals  
Hazardous Polymerization: Will not occur  
Thermal Decomposition Products: NA

## 11. Toxicological Information

NA

## 12. Ecological Information

NA

## 13. Disposal Considerations

Waste Disposal method: Dispose materials as common waste, unrestricted sanitary landfill.

## 14. Transport Information

No special transportation or label placarding is required.

## 15. Regulatory Information

Listed ingredients are on the U.S. EPA TSCA inventory of chemical substances. W.H.M.I.S. Coed D.2  
The product contains a chemical(s) known to the State of California to cause cancer or reproductive harm.

## 16. Other Information

Legend: NA – Not Available or Applicable ND – Not Determined

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