

All Clean

Material Safety Data Sheet

1. Product and Company Information:

Product Name: All Clean

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Granules-Crystal
 Odor: No Odor

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

Eye Contact: Corrosive may cause blurred vision, redness, pain, severe tissue burns and eye damage.

Skin Contact: Corrosive will cause irritation. May cause redness, pain, severe burns can occur.

Inhalation: Extremely destructive to tissue of mucous membranes and upper respiratory tract. Symptom may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting. May cause pulmonary edema, a medical emergency. Pulmonary edema may be delayed up to 48 hours.

Ingestion: Corrosive, swallowing can cause burns of mouth, throat and stomach. May lead to death. Can cause sore throat, vomiting, diarrhea.

Chronic/Carcinogenicity Effect: None Known

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|------------------|----------------|----------------|------------------|-----------------|--------------|
| Sulfamic Acid | 5329-14-6 | 100% | 10 ppm -TWA | NA | NA |

4. First-aid Measures

Eye Contact: Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Get medical physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin by water flushing for at least 15 minutes. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

Inhalation: remove person to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen, get medical help- physician immediately

Ingestion: If accidentally ingested, do not induce vomiting. If victim is fully conscious, give large amounts of water to dilute the effects – consult physician.

5. Fire Fighting Measures

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

Special Protective Equipment for Firefighters: water solution is acidic

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: material is not a fire or explosive hazard but during fire it may release SO₂/SO₃

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Sweep, cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Solid

Color: White

Odor: No Odor

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): Decomposes° C

Vapor density (air=1): 3.3

Specific Gravity (H₂O =1): 2.1

Freezing point: NA

Melting point: 205 °C

Solubility in water (by weight): Dispersible

pH: 1.2 @ concentration of 1% solution

Kinematic Viscosity: NA

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Warm Moist Environments, Protect from freezing

Incompatibility Materials: NITRATE, NITRATES, CHLORITES AND SULFIDES. SOLUTIONS ARE STRONG ACIDS AND WILL REACT VIOLENTLY WITH BASES.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: may contain products listed in California –proposition 65

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: DISSOLVE AND NEUTRALIZE WITH SODIUM CARBONATE. In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Vinyl Acetate Polymer, California –proposition 65

16. Other Information

HMIS Rating

Health: 3

Fire: 0

Reactivity: 0

Personal Protection: F

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

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AllFlex Lite

Material Safety Data Sheet

1. Product and Company Information:

Product Name: AllFlex Lite

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 |
|-------------------|-----------------|---------|---------------------|---------------------|-------|
| Portland Cement | 65977-15-1 | 50-65% | 10mg/m ³ | 50 mppcf | NA |
| Soda – Lime Glass | not established | 15-25% | | | NA |
| Calcium Carbonate | 1317-65-3 | 1-5% | 10mg/m ³ | 15mg/m ³ | 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

| <u>Component</u> | <u>TYPE</u> | <u>Value</u> |
|-------------------|----------------|---------------------|
| Calcium Carbonate | TWA Total Dust | 15mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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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AllFlex

Material Safety Data Sheet

1. Product and Company Information:

Product Name: AllFlex

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 |
|-------------------|-----------------|---------|----------------------|----------------------|-------|
| Portland Cement | 65977-15-1 | 30-45% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 40-65% | 0.1mg/m ³ | 0.1mg/m ³ | NA |
| Calcium Carbonate | 1317-65-3 | 1-5% | 10mg/m ³ | 15mg/m ³ | 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

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

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 (H₂O =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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AllSet

Material Safety Data Sheet

1. Product and Company Information:

Product Name: AllSet

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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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AllSet RS

Material Safety Data Sheet

1. Product and Company Information:

Product Name: AllSet RS

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Calcium Aluminate | 65997-16-2 | 20-30% | 10m/m3 | 5mg/m3 | NA |
| Portland Cement | 65977-15-1 | 5-10% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 (causitic) 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Calcium Aluminate | TWA Total Dust | 15mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Aqua Seal

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Aqua Seal

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Blue
 Physical State: Liquid, Semi-Paste
 Odor: Low Odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|-----------------------------|----------------|----------------|---------------------|---------------------|--------------|
| Calcium carbonate | 1317-65-3 | 10-20% | 10mg/m ³ | 15mg/m ³ | NA |
| Styrene-Butadiene Copolymer | 9003-55-8 | 35-50% | NA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|-----------------------------|--------------------|---------------------|
| Calcium Carbonate | TWA Total Dust | 15mg/m ³ |
| Styrene-Butadiene Copolymer | ACGIH TLV/OSHA PEL | NA |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid, Semi-Paste

Color: Blue

Odor: Low Odor-slight ammonia

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 10 mg Hg@60 ° F

Boiling Point (760mmHg): 210 ° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Percent VOCs: 0

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 9

Product Name: Aqua Seal

Date Issued: 9/24/2012

Kinematic Viscosity: NA

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F, Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: contains products listed in IARC Monographs

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Ingredient(s) – Carcinogenicity: Styrene-Butadiene Copolymer listed in IARC Monographs

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Styrene-Butadiene Copolymer California –proposition 65
Calcium Carbonate – Pennsylvania –workplace hazard

16. Other Information

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Brilliance Caulking

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Brilliance Caulking (Sanded and Smooth)

Manufacturer: Bonded Materials Company
4330 N. 43rd Avenue, Suite B-4
Phoenix, Arizona 85031, USA
Phone: 623-873-0001 Fax: 623-873-0007
Contact: Gary Chenault www.bondedmaterials.com

HMIS CODES: HFRP

PRODUCT CODE: SKO63

SECTION II: HAZARDOUS INGREDIENTS/SARA III INFORMATION

No reportable quantities of hazardous ingredients are present.

No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100C/212F (water)
Specific Gravity (H₂O=1): 1.4
Vapor Density: Heavier than air
Evaporation Rate: Slower than Either
Material V.O.C.: 0.40 lb/gal. (48 g/l)
Solubility in water: Complete
Appearance and Odor: Viscous liquid with slight ammonia odor

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash point: _____ Method used: _____
Flammable limits in air by volume - lower: 3.2% upper: n/a
Extinguishing media: None known
Special fire fighting procedures: None
Unusual fire and explosion hazards: Product will not burn but may spatter if temperature exceeds boiling point. Polymer films are capable of burning giving off oxides of carbon/nitrogen.

SECTION V: REACTIVITY DATA

Stability: Stable

Conditions to avoid: Freezing temperatures

Incompatibility (Materials to avoid): None known

Hazardous decomposition or by-products: None known

Hazardous polymerization: Will not occur

SECTION VI: HEALTH HAZARD DATA

Inhalation health risks and symptoms of exposure: Adverse health effects from vapors or spray mists in poorly ventilated areas may include irritation of the nose. Throat and respiratory tract irritation and headaches and nausea may also occur.

Skin and eye contact health risks and symptoms of exposure: Prolonged or repeated contact with product may cause skin irritation. Direct contact with product may result in eye irritation. Skin absorption health risks and symptoms of exposure not likely to be absorbed through the skin.

Ingestion health risks and symptoms of exposure: Ingestion may cause irritation and damage to mucous membranes.

Health hazards (acute and chronic): Skin, nose, throat and respiratory irritation may result from overexposure

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Brilliance Non Sanded Grout

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Brilliance Non Sanded Grout

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Colored
 Physical State: Powder
 Odor: No 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 |
|---------------------|-----------------|---------|----------------------|----------------------|-------|
| Portland Cement | 65997-15-1 | 15-20 | 10 mg/m ³ | 50 mppcf | NA |
| Calcium Aluminate | 065997-16-2 | 10-15 | 3 mg/m ³ | 5 mg/m ³ | NA |
| Iron Oxide Pigments | 1317-61-9 | 0 – 3 | 10 mg/m ³ | 15 mg/m ³ | 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 | OSHA PEL |
|---------------------|----------------|-----------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silca Sand | TWA Total Dust | 0.1 mg/M3 |
| Calcium Aluminate | TWA Total Dust | 5 mg/m3 |
| Iron Oxide Pigments | TWA Total Dust | 15 mg/m3 |

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 or Colored
Odor: No 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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Brilliance Paver Grout

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Brilliance Paver Grout

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Colored
 Physical State: Powder
 Odor: No 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 |
|---------------------|------------|---------|----------------------|-----------------------|-------|
| Portland Cement | 65997-15-1 | 25-35 | 10 mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 55-65 | N/A | 0.1 mg/M ³ | NA |
| Iron Oxide Pigments | 1317-61-9 | 0 – 3 | 10 mg/m ³ | 15 mg/m ³ | 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 (causitic) 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 | OSHA PEL |
|---------------------|----------------|-----------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1 mg/M3 |
| Iron Oxide Pigments | TWA Total Dust | 15 mg/m3 |

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 Colored
Odor: No 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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Brilliance Sanded Grout

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Brilliance Sanded Grout

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Colored
 Physical State: Powder
 Odor: No 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 |
|---------------------|-------------|---------|----------------------|-----------------------|-------|
| Portland Cement | 65997-15-1 | 15-20 | 10 mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 55-65 | N/A | 0.1 mg/M ³ | NA |
| Calcium Aluminate | 065997-16-2 | 10-15 | 3 mg/m ³ | 5 mg/m ³ | NA |
| Iron Oxide Pigments | 1317-61-9 | 0 – 3 | 10 mg/m ³ | 15 mg/m ³ | 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 | OSHA PEL |
|---------------------|----------------|-----------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silca Sand | TWA Total Dust | 0.1 mg/M3 |
| Calcium Aluminate | TWA Total Dust | 5 mg/m3 |
| Iron Oxide Pigments | TWA Total Dust | 15 mg/m3 |

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 or Colored
Odor: No 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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Brilliance Grout Stain

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Brilliance Grout Stain

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Thick white to colored
 Physical State: textured mixture
 Odor: mild ammonia 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

| | <u>CAS Reg. No</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|------------------------------------|--------------------|-----------------|---------------------------------|
| Acrylic Polymer dispersed in water | | Non Hazardous | |
| Limestone | 1317-65-3 | 5 | 10 mg/m ³ respirable |
| Titanium Dioxide | 13463-67-7 | 10 | 10 mg/m ³ respirable |
| 2-Butoxy ethanol | 000111-76-2 | 25 PPM | 25 PPM skin |
| Ammonium Hydroxide | 1335-21-6 | 50 PPM | 25 PPM |

4. First-aid Measures

Routes of Exposure: INHALATION - YES EYES/SKIN – YES

ACUTE Health Hazards: Irritation of eyes, skin and upper respiratory system. In a confined area, vapors in high concentration may cause headache, nausea or dizziness.

Signs and Symptoms of Overexposure: Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Emergency and First Aid Procedures:

IF INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

IF SWALLOWED: Get medical attention.

5. Fire Fighting Measures

| | |
|-------------------------------------|---|
| Flash Point | >199 F PMCC |
| Explosion Limits: | N/A |
| Extinguishing Media: | Carbon Dioxide, Dry Chemical, Alcohol Foam |
| Unusual Fire and Explosion Hazards: | Closed containers may explode due to the build-up of pressure when exposed to extreme heat. |
| Special Fire Fighting Procedures: | Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup. |

6. Accidental Release Measures

Steps to be taken in case material is released or spilled: Do not allow material to flow into sewers and open bodies of water.
Ventilate and remove with inert absorbent.

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

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

| | |
|-----------------------------|--|
| Boiling Point: | 212 - 400 °F |
| Vapor Pressure (mm Hg): | Greater than 1 |
| Vapor Density: | Heavier than air |
| Specific Gravity (water=1): | 1.1- 1.4 |
| Solubility in Water: | Dilutable |
| Evaporation rate: | (BUTYL ACETATE -1): Less than one |
| Appearance / Odor: | Thick white to colored, textured mixture, mild ammonia odor, pH 8-10 |

10. Stability and Reactivity

STABILITY- Stable

INCOMPATIBILITY- None Known

HARRDOUS DECOMPOSITION PRODUCTS- By fire: Carbon Dioxide, Carbon Monoxide

HARRDOUS POLYMERIZATION- Will Not Occur

11. Toxicological Information

NA

12. Ecological Information

NA

13. Disposal Considerations

Disposal Method: Waste from Latex Finishes is not hazardous.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Deck Mud

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Deck Mud

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Gray
 Physical State: Powder
 Odor: No 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 |
|-----------------|------------|---------|----------------------|----------------------|-------|
| Portland Cement | 65977-15-1 | 30-50% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 60-70% | 0.1mg/m ³ | 0.1mg/m ³ | 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 |
|-----------------|----------------|----------------------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |

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

Odor: No 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 (H₂O =1): 2.0

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

FloorSet Modified

Material Safety Data Sheet

1. Product and Company Information:

Product Name: FloorSet Modified

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | NA |
| Vinyl Co-Polymer | not established | .5-4% | | | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =1): 2.5
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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

FloorSet

Material Safety Data Sheet

1. Product and Company Information:

Product Name: FloorSet (formerly ValueSet)

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White or Gray
 Physical State: Powder
 Odor: No 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 |
|-----------------|------------|---------|----------------------|----------------------|-------|
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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

| <u>Component</u> | <u>TYPE</u> | <u>Value</u> |
|------------------|----------------|----------------------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |

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: No 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 (H₂O =1): 2.5
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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

FloorSet RS

Material Safety Data Sheet

1. Product and Company Information:

Product Name: FloorSet RS

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White or Gray
 Physical State: Powder
 Odor: No 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 |
|-------------------|------------|---------|----------------------|----------------------|-------|
| Portland Cement | 65977-15-1 | 5-10% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | NA |
| Calcium Aluminate | 65997-16-2 | 20-30% | 10m/m ³ | 5mg/m ³ | 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 (causitic) 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 |
|-------------------|----------------|----------------------|
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Calcium Aluminate | TWA Total Dust | 15mg/m ³ |

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: No 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 (H₂O =1): 2.5

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Glass Bond L

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Glass Bond L

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Liquid
 Odor: Low Odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|-----------------------------|----------------|----------------|------------------|-----------------|--------------|
| Styrene-Butadiene Copolymer | 9003-55-8 | 15-30% | NA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|-----------------------------|--------------------|-------|
| Styrene-Butadiene Copolymer | ACGIH TLV/OSHA PEL | NA |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid

Color: White

Odor: Low Odor-slight ammonia

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): 210 ° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 8

Kinematic Viscosity: NA

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F, Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: contains products listed in IARC Monographs

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies. It did not cause harm to the animal or fetus when applied on skin.

Ingredient(s) – Carcinogenicity: Styrene-Butadiene Copolymer listed in IARC Monographs

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Styrene-Butadiene Copolymer California –proposition 65

16. Other Information

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Glass Bond P

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Glass Bond P

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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: 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 (H₂O =1): 2.5

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

1. Product and Company Information:

Product Name: LevelBond™

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: 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 Aluminate Cement | 65997-16-2 | 15-25% | 10mg/m ³ | 5mg/m ³ | NA |
| Calcium Carbonate | 1317-65-3 | 10-20% | 10mg/m ³ | 15mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 5-15% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 40-50% | 0.1mg/m ³ | 0.1mg/m ³ | 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: Avoid generating dust. 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 Aluminate Cement | TWA Total Dust | 10mg/m ³ |
| Calcium Carbonate | TWA Total Dust | 15mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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

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 (H₂O =1): 2.7

Freezing point: NA

Product Name: LevelBond™

Date Issued: 9/24/2012

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

HMIS Rating
Health: 1
Fire: 0
Reactivity: 0
Personal Protection: E

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

LevelBond Primer

Material Safety Data Sheet

1. Product and Company Information:

Product Name: LevelBond Primer

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Light Blue
 Physical State: Liquid
 Odor: Slight sweet odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|---------------------------|----------------|----------------|------------------|-----------------|--------------|
| Styrene Butadiene Polymer | 91261-65-3 | 15-30% | 10 ppm -TWA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|---------------------------|-----------|-------------|
| Styrene Butadiene Polymer | ACGIH TLV | 10 ppm -TWA |
| | OSHA PEL | NA |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid

Color: Light Blue

Odor: Slight sweet odor

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): 212° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 10.0-11.0

Kinematic Viscosity: NA

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F , Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: may contain products listed in California –proposition 65

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies.

It did not cause harm to the animal or fetus when applied on skin.

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Vinyl Acetate Polymer, California –proposition 65

16. Other Information

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Medium Bed Modified *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Medium Bed Modified

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | NA |
| Vinyl Co-Polymer | not established | .5-4% | | | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Medium Bed NM

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Medium Bed NM

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Medium Bed Premium *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Medium Bed Premium

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

MultiTile

Material Safety Data Sheet

1. Product and Company Information:

Product Name: MultiTile (Standard and Professional Grade)

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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
Auto ignition Temperature: NA
Vapor Pressure: NA
Boiling Point (760mmHg): NA
Vapor density (air=1): NA
Specific Gravity (H₂O =1): 2.5
Freezing point: NA
VOC Content= 0.0%
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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Pro-Line Poxy Part A *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Pro-Line Poxy Part A

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Gray-white

Physical State: Viscous liquid

Odor: Mild

Primary Routes of Entry: Inhalation – No Skin – Yes Ingestion – No

Health Hazards:

Acute: May cause irritation to eyes with direct contact. Prolonged exposure to skin may cause irritation.

Chronic: Prolonged exposure may cause skin irritation.

Medical Conditions Aggravated by Exposure: Hypersensitive individuals may develop allergic dermatitis.

3. Composition Information

| <u>Component</u> | <u>CAS#</u> | <u>Amount</u> |
|--|-------------|---------------|
| Reaction of Epichlorohydrin & Bisphenol | 25068-38-6 | |

4. First-aid Measures

Signs and Symptoms of Exposure: Skin irritation, reddening of eyes

Emergency and First Aid Procedures: Irrigate eyes with water, wash exposed skin areas with water, remove patient to fresh air. If accidentally ingested, – consult physician.

5. Fire Fighting Measures

Extinguishing Media: Foam, CO2, dry chemical

Special Fire Fighting Procedures: Use self-contained breathing apparatus

Unusual Fire and Explosion Hazards: Can rupture under excessive heat. Burning will result in release of Carbon Dioxide and Carbon Monoxide fumes.

6. Accidental Release Measures

Released or Spilled: Collect spills using absorbent material and collect in suitable container. Residual may be removed with steam or hot soapy water. Keep material safe from spark-producing equipment and extreme heat. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat, and heat sources. Protect from freezing
Use only with adequate ventilation. Avoid exposing container to extreme heat (Greater than 200F)

8. Exposure Controls / Personal Protection

| Component | Type | Value |
|--|------|----------|
| Reaction products of Epichlorohydrin & Bisphenol A. | TLV | 0.1mg/m3 |

Personal Protection

Respiratory Protection: OSHA approved respirator for silica dust

Ventilation: Local Exhaust – Yes Mechanical – NA
Special – NA Other – NA

Protective Gloves: Recommended

Eye Protection: Tight fitting goggles in busy areas

Other Protective Clothing: Barrier cream, boots and clothing should protect skin.

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

Personal Precautions: Eliminate exposure to eyes and skin.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Appearance and Odor: Gray-white liquid with mild odor

Flash Point: 480F, pmcc Flammable Limits: NA

Vapor Density: NA Specific Gravity: 1.71

Solubility in Water: NA Vapor Pressure: NA

Melting Point: Liquid Boiling Point: NA

Evaporation Rate: NA

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Keep dry until used

Incompatibility: Bases

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide

Hazardous Polymerization: Will not occur

11. Toxicological Information

Carcinogenicity: NTP: No IARC Monographs – No OSHA Regulated – No

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

16. Other Information

Legend:

NA – Not Available

ND – Not Determined

F - Fahrenheit

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Pro-Line Poxy Part B *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Pro-Line Poxy Part B

Manufacturer: Bonded Materials Company
4330 N. 43rd Avenue, Suite B-4
Phoenix, Arizona 85031, USA
Phone: 623-873-0001 Fax: 623-873-0007
Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Varied

Physical State: Viscous liquid

Odor: Mild ammonia

Primary Routes of Entry: Inhalation – No Skin – Yes Ingestion – No

Health Hazards:

Acute: Will cause irritation to eyes with direct contact. Exposure to skin will cause irritation.

Chronic: Prolonged exposure may cause skin irritation.

Medical Conditions Aggravated by Exposure: Hypersensitive individuals may develop allergic dermatitis.

3. Composition Information

| <u>Component</u> | <u>CAS#</u> | <u>Amount</u> |
|---------------------|-------------|---------------|
| Aliphatic Polyamine | N/A | |

4. First-aid Measures

Signs and Symptoms of Exposure: Skin irritation, reddening of eyes

Emergency and First Aid Procedures: Irrigate eyes with water, wash exposed skin areas with water, remove patient to fresh air. If accidentally ingested, – consult physician.

5. Fire Fighting Measures

Extinguishing Media: Foam, CO₂, dry chemical

Special Fire Fighting Procedures: Use self-contained breathing apparatus

Unusual Fire and Explosion Hazards: Can rupture under excessive heat. Burning will result in release of Carbon Dioxide and Carbon Monoxide fumes.

6. Accidental Release Measures

Released or Spilled: Collect spills using absorbent material and collect in suitable container. Residual may be removed 5% acetic rinse and then thoroughly rinsed with hot water. Keep material safe from spark-producing equipment and extreme heat. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in cool dry area

8. Exposure Controls / Personal Protection

| Component | Type | Value |
|---------------------|----------|-------|
| Aliphatic Polyamine | OSHA/TLV | ND |

Personal Protection

Respiratory Protection: OSHA approved respirator for silica dust

Ventilation: Local Exhaust – Yes Mechanical – NA
Special – NA Other – NA

Protective Gloves: Recommended

Eye Protection: Tight fitting goggles in busy areas

Other Protective Clothing: Barrier cream, boots and clothing should protect skin.

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

Personal Precautions: Eliminate exposure to eyes and skin.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Appearance and Odor: Colored liquid, mild ammonia odor

Flash Point: Set flash > 255F Flammable Limits: ND

Vapor Density: ND Specific Gravity: 0.94

Solubility in Water: Slight Vapor Pressure: ND

Melting Point: Liquid Boiling Point: ND

Evaporation Rate: >1 (ether = 1)

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Keep dry until used

Incompatibility: Strong oxidizing agents

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen, Burning dry material will result in release of dense black smoke

Hazardous Polymerization: Will not occur

11. Toxicological Information

Carcinogenicity: NTP: No IARC Monographs – No OSHA Regulated – No

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

All ingredients are listed on the U.S. EPA TSCA inventory of chemical substances.

16. Other Information

Legend:

NA – Not Available

ND – Not Determined

F - Fahrenheit

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Pro-Line Poxy Part C *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Pro-Line Poxy Part C

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Varied

Physical State: Granulars

Odor: NA

Primary Routes of Entry: Inhalation – Yes Skin – Yes Ingestion – No

Health Hazards:

Acute: Exposure to dust may cause eye and upper respiratory irritation.

Chronic: Prolonged exposure may cause inflammation of nose and eyes. Prolonged exposure to dust over the TLV may cause scarring of lungs & delayed lung injury (silicosis).

Medical Conditions Aggravated by Exposure: Hypersensitive individuals may develop allergic dermatitis.

3. Composition Information

| <u>Component</u> | <u>CAS#</u> | <u>Amount</u> |
|------------------|--------------|---------------|
| Silica Sand | 01-4808-60-7 | |

4. First-aid Measures

Signs and Symptoms of Exposure: Shortness of breath, coughing, reddening of eyes.

Emergency and First Aid Procedures: Irrigate eyes with water, wash exposed skin areas with water, remove patient to fresh air. If accidentally ingested mortar may set and cause bowel obstruction,— consult physician.

5. Fire Fighting Measures

Extinguishing Media: N/A

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

6. Accidental Release Measures

Released or Spilled: Collect spills using dustless method, material can be returned to container for later use, wear OSHA approved respirator for silica dust when cleaning area.

7. Handling and Storage

Store in cool dry area

8. Exposure Controls / Personal Protection

| Component | Type | Value |
|-------------|-------------------------------|---|
| Silica Sand | OSHA(respirable)/(total dust) | 0.1mg/m ³ / 0.3mg/m ³ |
| Silica Sand | TLV | 0.1mg/m ³ |

Respiratory Protection: OSHA approved respirator for silica dust.

Ventilation: Local Exhaust – Yes Mechanical – NA
Special – NA Other – NA

Protective Gloves: Recommended

Eye Protection: Tight fitting goggles in busy areas

Other Protective Clothing: Barrier cream, boots and clothing should protect skin.

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

Personal Precautions: Eliminate exposure to dust, use OSHA approved mask for silica dust, if freshly mixed mortar gets into eyes or contacts skin – flush immediately and repeatedly with water and contact physician immediately.

9. Physical and Chemical Properties

Appearance and Odor: Colored granulars, no odor

Flash Point: NA Flammable Limits: NA

Vapor Density: NA Specific Gravity: 2.26

Solubility in Water: < 1% Vapor Pressure: NA

Melting Point: ND Boiling Point: NA

Evaporation Rate: NA

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Keep dry until used

Incompatibility: N/A

Hazardous Decomposition Products: N/A

Hazardous Polymerization: Will not occur

11. Toxicological Information

Carcinogenicity: NTP: No IARC Monographs – Yes OSHA Regulated – No
This product itself is not regulated but it contains small amounts of naturally occurring crystalline silica. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemical to Humans (volume 42, 1987) concludes that there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and that there is limited evidence of the carcinogenicity of crystalline silica to humans. IARC Class 2A.

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.
RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

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

16. Other Information

Legend:

NA – Not Available

ND – Not Determined

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Pool Grout

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Pool Grout

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Powder
 Odor: No 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 | 50-70% | 10mg/m ³ | 15mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Titanium Dioxide | 13463-67-7 | 1-5% | 10 mg/m ³ | | |

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 (causitic) 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 ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Titanium Dioxide | | 10 mg/rn ³ resperable |

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: No 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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

ProBond

Material Safety Data Sheet

1. Product and Company Information:

Product Name: ProBond

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Liquid
 Odor: Sweet/Low Odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|-------------------|----------------|----------------|------------------|-----------------|--------------|
| Polyvinyl Acetate | 9003-20-7 | 40-50% | NA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|-------------------|------|-------|
| Polyvinyl Acetate | | |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid

Color: White

Odor: Sweet/ Low Odor

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): 212° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 5.6

Kinematic Viscosity: NA

Product Name: ProBond

Date Issued: 9/24/2012

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F , Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

No hazardous materials present. This product does not contain any ingredient designated by IARC, NTP, ACGIH, WHMIS, EC or OSHA, as probable or suspected human carcinogens

12. Ecological Information

No Data

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200): Not Hazardous.

California Prop 65: To the best of our knowledge, this product does not contain ingredients on the Prop 65 substance list, which the state of California has found to cause cancer, birth defects, or other reproductive effects.

International Regulations: Consult the regulations of the applicable country of import.

16. Other Information

HMIS Rating

Health: 1

Fire: 1

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

ProCrylic

Material Safety Data Sheet

1. Product and Company Information:

Product Name: ProCrylic

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Liquid
 Odor: Low Odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|---|----------------|----------------|------------------|-----------------|--------------|
| Acrylic Polymer (dispersed in water) | 7664-41-7 | 20-30% | NA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|-----------------|------|-------|
| Acrylic Polymer | | |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid

Color: White

Odor: Low Odor

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): 212° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 9.5

Kinematic Viscosity: NA

Product Name: ProCrylic

Date Issued: 9/24/2012

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F , Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: may contain products listed in California –proposition 65

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies.

It did not cause harm to the animal or fetus when applied on skin.

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Vinyl Acetate Polymer, California –proposition 65

16. Other Information

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

ProLatex

Material Safety Data Sheet

1. Product and Company Information:

Product Name: ProLatex

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: White
 Physical State: Liquid
 Odor: Low Odor

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

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: May cause nose, throat and lung irritation

Ingestion: Harmful if swallowed, may cause gastrointestinal irritation, nausea and vomiting.

Chronic/Carcinogenicity Effect: Contains products listed in IARC Monographs May cause nose, throat and lung irritation, may cause gastrointestinal irritation.

3. Composition Information

| <u>Component</u> | <u>CAS No.</u> | <u>Percent</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|------------------------------|----------------|----------------|------------------|-----------------|--------------|
| Styrene Butadiene Co-polymer | 009003-55-8 | 15-20% | NA | NA | NA |

4. First-aid Measures

Eye Contact: Blot or wipe any residue remaining on face, being careful not to get into victim's eyes or on skin. Immediately flush eyes with plenty of water; remove contact lenses after 1-2 minutes then continue flushing for at least 15 minutes. Effect may be delayed. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Remove excess from skin. Wash exposed skin areas with soap and water. Remove contaminated clothes and shoes. Thoroughly clean before reuse. Get medical attention immediately. If irritation (redness, rash, blistering) develop and persist.

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

Ingestion: If accidentally ingested, do not induce vomiting unless directed to do so by medical personnel. If victim is fully conscious, give one to two cups of water to dilute the effects – consult physician.

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: material will not burn until all water is evaporated. Containers may burst open and splatter material if temperature reaches 212° F and above.

Hazardous Combustion Products: NA

6. Accidental Release Measures

Released or Spilled: Clean up spills immediately. Cover with absorbent to contain. Use appropriate containers to avoid environmental contamination. Avoid runoff to waterways and sewers. Avoid release to the environment. Use appropriate personal protective equipment (PPE).

7. Handling and Storage

Store in covered, dry area away from sunlight, heat and heat sources. Protect from freezing
Use only with adequate ventilation.

8. Exposure Controls / Personal Protection

| Component | TYPE | Value |
|------------------------------|------|-------|
| Styrene Butadiene Co-polymer | | |

Personal Protection

Eye/Face Protection: Use safety glasses with side shields or wear chemical goggles.

Skin Protection: Clothing should prevent skin contact.

Hand Protection: impervious gloves, vinyl or rubber gloves recommended

Respiratory Protection: NIOSH/OSHA approved respirator.

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 product.

Engineering Controls

Ventilation: Use with adequate ventilation. Fan or other device maybe needed if used in a small enclosed area.

9. Physical and Chemical Properties

Physical State: Liquid

Color: White

Odor: Low Odor

Flash point: NA

Flammable limits in Air Lower (LEL): NA Upper (UEL): NA

Autoignition Temperature: NA

Vapor Pressure: 17.5 mg Hg@70 ° F

Boiling Point (760mmHg): 212° F

Vapor density (air=1): Heavier than air

Specific Gravity (H₂O =1): 1.1

Freezing point: 32 ° F

Melting point: NA

Solubility in water (by weight): Dispersible

pH: 9.5

Kinematic Viscosity: NA

Product Name: ProLatex

Date Issued: 9/24/2012

10. Stability and Reactivity

Stability/Instability: Stable

Conditions to Avoid: Temperature over 350 ° F , Protect from freezing

Incompatibility Materials: Avoid contact with strong oxidizers.

Hazardous Polymerization: Will not occur

Thermal Decomposition Products: Decomposition in air may result in carbon monoxide and/ or carbon dioxide.

11. Toxicological Information

Chronic/Carcinogenicity Effect: may contain products listed in California –proposition 65

Reproductive Effects: May contain trace amounts of chemicals that cause birth defects in animal studies.

It did not cause harm to the animal or fetus when applied on skin.

12. Ecological Information

NA

13. Disposal Considerations

Waste Disposal method: In accordance with applicable federal, state and local government regulations and industry standards.

RCRA information: Not considered RCRA waste

14. Transport Information

No special transportation or label placarding is required.

15. Regulatory Information

Ingredients(s) – State Regulation: Vinyl Acetate Polymer, California –proposition 65

16. Other Information

HMIS Rating

Health: 1

Fire: 0

Reactivity: 0

Personal Protection: B

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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

1. Product and Company Information:

Product Name: ProSet

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Stone-Veneer-Set *Material Safety Data Sheet*

1. Product and Company Information:

Product Name: Stone-Veneer-Set

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

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 ³ | 15mg/m ³ | NA |
| Calcium Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-40% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 50-65% | 0.1mg/m ³ | 0.1mg/m ³ | 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 ³ |
| Calcium Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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 (H₂O =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

The information provided is without warranty, representation, inducement or license of any kind; except that it is accurate to the best of company knowledge, or obtained from sources believed by the company to be accurate.

Universall Patch

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Universall Patch

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: 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 Aluminate Cement | 65997-16-2 | 30-40% | 10mg/m ³ | 5mg/m ³ | NA |
| Calcium Carbonate | 1317-65-3 | 50-60% | 10mg/m ³ | 15mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 1-10% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 0-1% | 0.1mg/m ³ | 0.1mg/m ³ | 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 Aluminate Cement | TWA Total Dust | 10mg/m ³ |
| Calcium Carbonate | TWA Total Dust | 15mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |
| Vinyl Co-Polymer | TWA Total Dust | 10mg/m ³ |

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
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 (H₂O =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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Wall Float

Material Safety Data Sheet

1. Product and Company Information:

Product Name: Wall Float

Manufacturer: Bonded Materials Company
 4330 N. 43rd Avenue, Suite B-4
 Phoenix, Arizona 85031, USA
 Phone: 623-873-0001 Fax: 623-873-0007
 Contact: Gary Chenault www.bondedmaterials.com

2. Hazards Identification

Emergency Overview

Color: Gray
 Physical State: Powder
 Odor: No 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 Hydroxide | 1305-62-0 | 1-10% | 10mg/m ³ | 5mg/m ³ | NA |
| Portland Cement | 65977-15-1 | 30-50% | 10mg/m ³ | 50 mppcf | NA |
| Silica Sand | 14808-60-7 | 40-60% | 0.1mg/m ³ | 0.1mg/m ³ | 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 (causitic) 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 Hydroxide | TWA Total Dust | 5mg/m ³ |
| Portland Cement | TWA Total Dust | 50 mppcf |
| Silica Sand | TWA Total Dust | 0.1mg/m ³ |

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

Odor: No 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 (H₂O =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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