

SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Names: Universal Bonding Mortar (UBM)

Product Code: N/A

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Use: Calstone Universal Bonding Mortar (UBM) is a polymer-modified cement/lime/sand masonry mortar designed to suit the broadest range of masonry construction and veneer applications possible. UBM is a true "Universal" masonry mortar. Polymer modified non-sag cement lime mortar suitable for many applications including standard CMU wall construction, natural and/or manufactured veneer bonding, brick masonry, base/scratch coats, setting beds, pointing mortar, coping, paver and stone overlays.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name/Address: Calstone Company 426 E Grant Line Rd, Tracy, CA 95376

Telephone Number: (209) 833-7366

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone Number: 911

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM2012 1910.1200

| | |
|--|-------------|
| Hazard class | |
| Skin irritation | Category 2 |
| Serious Eye irritation | Category 1 |
| Carcinogenicity | Category 1A |
| Specific target organ toxicity - Single exposure | Category 3 |
| Specific target organ toxicity - Repeated exposure | Category 1 |

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

Hazard Pictogram:



Signal Word:

DANGER!

Prevention:

Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response:

If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water

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for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention.

- Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal:** Dispose of unused or unwanted concrete products in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION

- Hazards not otherwise classified:** Not applicable.
- Unknown Acute Toxicity:** 12% of the mixture consists of ingredient(s) of unknown acute toxicity.
- WHMIS Classification:** Class D2B – Skin/Eye Irritant
Class D2A – Chronic Toxic Effects
Class D2A - Carcinogenicity
- Label Elements According to WHMIS:** **WHMIS Hazard Symbols**



WHMIS Signal Word:
WARNING!

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

| Ingredient | CAS No | Wt. % |
|----------------------------|------------|---------|
| Crystalline Silica, Quartz | 14808-60-7 | 30 - 70 |
| Portland Cement | 65997-15-1 | 15-40 |
| Calcium Carbonate | 1317-65-3 | 1 - 5 |
| Calcium Hydroxide | 1305-62-0 | 1 – 5 |

*The exact percentage (concentration) of composition has been expressed as a range due to batch-to-batch variation, in accordance with paragraph (i) of §1910.1200.

Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If eye irritation persists: Get medical advice/attention.
- Skin:** If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

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Ingestion: Not a normal route of exposure. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: Causes skin irritation. Wear gloves when handling product to avoid drying and mechanical abrasion of the skin. May cause sensitization by skin contact.

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Flammability: Not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

5.2 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available.

5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon and hydrogen sulfide

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full firefighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

- Methods for Containment:** Recover all usable material. Pick up large pieces, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- Handling:** Use in well-ventilated areas. Wear chemical resistant gloves and eye protection. Do not mix with other chemical products. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally. Good Housekeeping is important to prevent accumulation of dust. To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contains this product.
- General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- Storage:** Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep dry until use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

| Ingredient | Occupational Exposure Limits | |
|----------------------------|---|------------------------------|
| | OSHA-PEL | ACGIH-TLV |
| Crystalline Silica, Quartz | 0.1 mg/m ³ | 0.025 mg/m ³ |
| Portland Cement | 5 mg/m ³ (Resp.) 15 mg/m ³ (Total) | 10 mg/m ³ (Resp.) |
| Calcium Carbonate | 5 mg/m ³ (Resp.) 15 mg/m ³ (Total) | 2 mg/m ³ (Resp.) |
| Calcium Hydroxide | 5 mg/m ³ | 5 mg/m ³ |

8.2 EXPOSURE CONTROLS

- Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTIVE MEASURES

- Personal Protective Equipment:**
- Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]

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Skin Protection:

Hand Protection: Wear suitable gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------|
| Appearance: | Powder |
| Color: | Various |
| Odor: | Characteristic |
| Odor Threshold: | Not available |
| Physical State: | Solid |
| pH: | 10 – 13 when wet |
| Melting Point/Freezing Point: | Not available |
| Initial Boiling Point and Boiling Range: | Not available |
| Flash Point: | > 212°F |
| Evaporation Rate: | Not available |
| Flammability: | Not flammable |
| Lower Flammability/Explosive Limit: | Not available |
| Upper Flammability/Explosive Limit: | Not available |
| Vapor Pressure: | Not available |
| Vapor Density: | Not available |
| Relative Density/Specific Gravity: | Not available |
| Solubility in Water: | Slightly Soluble |
| Partition coefficient: n-octanol/water: | Not available |
| Auto-ignition Temperature: | Not available |
| Decomposition Temperature: | Not available |
| Viscosity: | Not available |
| VOC Content: | 0 g/L (0%) |

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Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY

Stable under normal conditions of use. Keep in dry storage.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Reacts with water to form alkaline solution (condition of normal use)

10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5 INCOMPATIBLE MATERIALS

None known.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield oxides of carbon and hydrogen sulfide.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

11.2 SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

- Eye:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis.
- Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.
- Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease. Please see section 4.3 for further information.

Acute Toxicity:

| Ingredient | LC50 | LD50 |
|----------------------------|----------------|-----------------------|
| Crystalline Silica, Quartz | Not available. | Oral 500 mg/kg rat |
| Portland Cement | Not available. | Oral > 3000 mg/kg rat |
| Calcium Carbonate | Not available. | Oral 500 mg/kg rat |
| Calcium Hydroxide | Not available. | Oral 7340 mg/kg, rat |

| Ingredient | Chemical Listed as Carcinogens or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)* |
|----------------------------|---|
| Crystalline Silica, Quartz | N-A2, I-1, O-1, ACGIH-A2, CP65 |
| Portland Cement | ACGIH-A4 |
| Calcium Carbonate | Not Listed |

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11.3 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

SHORT-TERM

| | |
|---------------------------------------|-------------------------------------|
| Serious Eye Damage/Irritation: | Causes serious eye irritation. |
| Serious Eye Damage/Irritation: | Causes serious eye irritation. |
| Respiratory Sensitization: | Not available |
| Skin Sensitization: | May cause an allergic skin reaction |
| STOT-Single Exposure: | May cause respiratory irritation |
| Aspiration Hazard: | Not available |

LONG-TERM:

| | |
|--|---|
| Carcinogenicity: | May cause cancer |
| Germ Cell Mutagenicity: | Not available |
| Reproductive Toxicity: | Not available |
| STOT-Repeated Exposure: | Causes damage to lungs through prolonged or repeated inhalation of dust |
| Synergistic/Antagonistic Effects: | Not available. |

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: No ecological consideration when used according to directions.

Ecotoxicity

| Ingredient | EC50/NOEC-48 Hours | LC50/NOEC-96 Hours |
|----------------------------|--------------------|--------------------|
| Crystalline Silica, Quartz | Not available | Not available |
| Portland Cement | Not available | Not available |
| Calcium Carbonate | Not available | Not available |

12.2 PERSISTENCE AND DEGRADABILITY

Not available.

12.3 BIOACCUMULATIVE POTENTIAL

Not available.

12.4 MOBILITY IN SOIL

Not available.

12.5 OTHER ADVERSE EFFECTS

Not available.

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Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal Method: Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION

DOT (U.S.)

UN NUMBER:

Not regulated

UN PROPER SHIPPING NAME:

Not regulated

TRANSPORT HAZARD CLASS (ES):

Not regulated

PACKING GROUP (if applicable):

Not regulated

TDG (Canada)

UN NUMBER:

Not regulated

UN PROPER SHIPPING NAME:

Not regulated

TRANSPORT HAZARD CLASS (ES):

Not regulated

PACKING GROUP (if applicable):

Not regulated

14.1 ENVIRONMENTAL HAZARDS

Not available

14.2 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not available

14.3 SPECIAL PRECAUTIONS FOR USER

Not available

Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

15.2 US FEDERAL INFORMATION:

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

| SARA Title III | | | | |
|---|---------------------------------|------------------------------|---------------------|----------------|
| Ingredient | Section 302 (EHS) TPQ (lbs.) | Section 304 EHS RQ (lbs.) | CERCLA RQ (lbs.) | Section 313 |
| Crystalline Silica, Quartz (14808-60-7) | Not listed. | Not listed. | Not listed. | Not listed. |
| Portland Cement (65997-15-1) | Not listed. | Not listed. | Not listed. | Not listed. |
| Calcium Carbonate | Not listed. | Not listed. | Not listed. | Not listed. |

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| | |
|--|--|
| <u>SARA TITLE III:</u> | Section 302, No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| <u>SARA TITLE III:</u> | Section 311 and 312, No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311 and 312. |
| <u>SARA TITLE III:</u> | Section 313, No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313. |
| <u>RCRA:</u> | Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq. |
| <u>CERCLA:</u> | Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302. |
| <u>Emergency Planning and Community Right to Know Act (SARA Title III):</u> | Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313. |
| <u>FDA:</u> | Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi). |
| <u>NTP:</u> | Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen. |

15.2 US STATE RIGHT TO KNOW LAWS:

State Regulations

California Proposition 65:

This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm which may be released upon sanding/cutting/grinding/drilling.

Other U.S. States "Right to Know" Lists:

| | |
|-----------------------|---|
| New Jersey: | SILICA, QUARTZ: CAS#14808-60-7 SILICATE, PORTLAND CEMENT: CAS#65997-15-1 CALCIUM CARBONATE: CAS#1317-65-3 GYPSUM (CALCIUM SULFATE): CAS#7778-18-9 CALCIUM FORMATE: CAS#544-17-2 |
| Pennsylvania: | SILICA, QUARTZ: CAS#14808-60-7 CEMENT, PORTLAND, CHEMICALS: CAS#65997-15-1 LIMESTONE: CAS#1317-65-3 GYPSUM (CALCIUM SULFATE): CAS#7778-18-9 CALCIUM FORMATE: CAS#544-17-2 |
| Massachusetts: | QUARTZ: CAS#14808-60-7 PORTLAND CEMENT: CAS#65997-15-1 CALCIUM CARBONATE: CAS#1317-65-3 GYPSUM (CALCIUM SULFATE): CAS#7778-18-9 |
| Minnesota: | SILICA, QUARTZ: CAS#14808-60-7 PORTLAND CEMENT: CAS#65997-15-1 CALCIUM CARBONATE: CAS#1317-65-3 GYPSUM (CALCIUM SULFATE): CAS#7778-18-9 |

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15.4 GLOBAL INVENTORIES:

| Ingredient | USA TSCA | Canada DSL/NDSL |
|----------------------------|----------|-----------------|
| Crystalline Silica, Quartz | Yes | DSL |
| Portland Cement | Yes | DSL |
| Calcium Carbonate | Yes | DSL |
| Calcium Hydroxide | Yes | DSL |

Section 16: OTHER INFORMATION

Date of Preparation: August 3rd, 2020

Expiry Date: _____

Version: 1.0

Revision Date: N/A

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End of Safety Data Sheet