

## 1. Identification

**Product identifier** **HB<sup>TM</sup> MORTAR POWDER**

**Other means of identification** None.

**Recommended use** Not available.

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

**Company Name** Armor Limited, Inc.  
**Address** 2410 US-15 South, Sumter, SC 29150

**After hours telephone number** 1-877-982-7667

**Normal work hours telephone number** 1-877-982-7667

**Website** [www.armor-inc.com](http://www.armor-inc.com)

**E-mail** [customerservice@armor-inc.com](mailto:customerservice@armor-inc.com)

**Emergency 24-hour telephone number** CHEMTREC North America: 800-424-9300, International: +1-703-527-3887

**Information on operation hours** 8:00 a.m. to 5:00 p.m.

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards**

|   |   |
|---|---|
| Carcinogenicity                                   | Category 1                              |
| Specific target organ toxicity, single exposure   | Category 3 respiratory tract irritation |
| Specific target organ toxicity, repeated exposure | Category 1 (lungs)                      |

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. May cause cancer.

### Precautionary statement

**Prevention** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. 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 INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. 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 contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number | %             |
|--|--------------------------|------------|---------------|
| QUARTZ                                   |                          | 14808-60-7 | 30 - 50       |
| WATER                                    |                          | 7732-18-5  | < 2           |
| Other components below reportable levels |                          |            | 58.8600040727 |

### 4. First-aid measures

|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If breathing is difficult, give oxygen. Get medical attention.  |
| <b>Skin contact</b>   | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. |
| <b>Eye contact</b>  | In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. Get medical attention.  |
| <b>Ingestion</b>  | Do not induce vomiting without advice from poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Prolonged exposure may cause chronic effects. Direct contact with skin may cause temporary irritation. Direct contact with eyes may cause temporary irritation. May cause respiratory irritation. Irritation of nose and throat. Difficulty in breathing.                 |
| <b>Indication of immediate medical attention and special treatment needed</b> | In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.  |
| <b>General information</b>  | IF exposed or concerned: Get medical advice/attention. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.  |

### 5. Fire-fighting measures

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Fire may produce irritating, corrosive and/or toxic gases.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| <b>Fire fighting equipment/instructions</b>                          | In the event of fire, cool tanks with water spray.   |
| <b>Specific methods</b>  | Cool containers exposed to flames with water until well after the fire is out.   |

### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Wear appropriate protective equipment and clothing during clean-up.  |
| <b>Methods and materials for containment and cleaning up</b>               | Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.   |

### 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Do not breathe dust. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Minimize dust generation and accumulation. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed. Keep out of reach of children. Store in a cool, dry place. Use care in handling/storage.                       |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

| Components              | Type | Value      | Form             |
|-------------------------|------|------------|------------------|
| QUARTZ (CAS 14808-60-7) | PEL  | 0.05 mg/m3 | Respirable dust. |

#### US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

| Components              | Type | Value     | Form        |
|-------------------------|------|-----------|-------------|
| QUARTZ (CAS 14808-60-7) | TWA  | 0.1 mg/m3 | Respirable. |
|                         |      | 2.4 mppcf | Respirable. |

#### US. ACGIH Threshold Limit Values (TLV)

| Components              | Type | Value       | Form                 |
|-------------------------|------|-------------|----------------------|
| QUARTZ (CAS 14808-60-7) | TWA  | 0.025 mg/m3 | Respirable fraction. |

#### NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

| Components              | Type | Value    |
|-------------------------|------|----------|
| QUARTZ (CAS 14808-60-7) | IDLH | 50 mg/m3 |

#### US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

| Components              | Type | Value      | Form             |
|-------------------------|------|------------|------------------|
| QUARTZ (CAS 14808-60-7) | TWA  | 0.05 mg/m3 | Respirable dust. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**Appropriate engineering controls** Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Goggles/face shield are recommended.

#### Skin protection

**Hand protection** Wear protective gloves.

**Other** Wear appropriate clothing to prevent any possibility of skin contact with solutions containing 10% or more of this chemical.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** Not available.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

|  |                    |
|--|--------------------|
| <b>Appearance</b>                              | Powder.            |
| <b>Physical state</b>                          | Solid.             |
| <b>Form</b>                                    | Powder.            |
| <b>Color</b>                                   | Light tan to gray. |
| <b>Odor</b>                                    | Odorless.          |
| <b>Odor threshold</b>                          | Not available.     |
| <b>pH</b>                                      | Not available.     |
| <b>Melting point/freezing point</b>            | Not available.     |
| <b>Initial boiling point and boiling range</b> | Not available.     |
| <b>Flash point</b>                             | Not available.     |
| <b>Evaporation rate</b>                        | Not available.     |
| <b>Flammability (solid, gas)</b>               | Not available.     |

**Upper/lower flammability or explosive limits**

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Insoluble

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**10. Stability and reactivity**

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** None under normal conditions.

**Incompatible materials** Strong oxidizing agents. Strong bases.

**Hazardous decomposition products** Oxides of silicon.

**11. Toxicological information****Information on likely routes of exposure**

**Inhalation** Inhalation of dusts may cause respiratory irritation.

**Skin contact** Dust or powder may irritate the skin.

**Eye contact** Dust in the eyes will cause irritation.

**Ingestion** Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Irritating to mouth, throat, and stomach. Exposure may cause temporary irritation, redness, or discomfort. Direct contact with skin or eyes may cause temporary irritation. Dusts may irritate the respiratory tract, skin and eyes.

**Information on toxicological effects****Acute toxicity**

| Product           | Species | Test Results       |
|-------------------|---------|--------------------|
| HB™ MORTAR POWDER |         |                    |
| <b>Acute</b>      |         |                    |
| <b>Dermal</b>     |         |                    |
| ATEmix            |         | 307100000 mg/kg bw |

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** May cause temporary eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** May irritate eyes and skin.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** May cause cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

QUARTZ (CAS 14808-60-7) 1 Carcinogenic to humans.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

QUARTZ (CAS 14808-60-7)

Cancer

## US. National Toxicology Program (NTP) Report on Carcinogens

QUARTZ (CAS 14808-60-7)

Known To Be Human Carcinogen.

|   |   |
|---|---|
| <b>Reproductive toxicity</b>                              | Not classified.   |
| <b>Specific target organ toxicity - single exposure</b>   | May cause respiratory irritation.   |
| <b>Specific target organ toxicity - repeated exposure</b> | Causes damage to organs through prolonged or repeated exposure by inhalation. Lungs. Silicosis. |
| <b>Aspiration hazard</b>                                  | Not available.  |

## 12. Ecological information

|                                      |   |
|--------------------------------------|---|
| <b>Ecotoxicity</b>                   | Not expected to be harmful to aquatic organisms.  |
| <b>Persistence and degradability</b> | Not available.  |
| <b>Bioaccumulative potential</b>     | Not available.  |
| <b>Mobility in soil</b>              | Not available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal considerations

|  |   |
|--|---|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.                     |
| <b>Waste from residues / unused products</b> | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied.   |

## 14. Transport information

|   |                                   |
|---|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b>   | Not regulated as dangerous goods. |
| <b>IMDG</b>   | Not regulated as dangerous goods. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not available.                    |

## 15. Regulatory information

|   |   |
|---|---|
| <b>US federal regulations</b>   | All components are on the U.S. EPA TSCA Inventory List.           |
| <b>Toxic Substances Control Act (TSCA)</b>                            |   |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>  | Not regulated.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                 |   |
| Not listed.   |   |
| <b>SARA 304 Emergency release notification</b>                        |   |
| Not regulated.  |   |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> |   |
| QUARTZ (CAS 14808-60-7)   | Cancer<br>lung effects<br>immune system effects<br>kidney effects |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>    |   |
| <b>SARA 302 Extremely hazardous substance</b>                         |   |
| Not listed.   |   |

**SARA 311/312** Yes  
**Hazardous chemical**  
**Classified hazard categories** Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)  
**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated.  
**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.  
**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.  
**California Proposition 65**  
**California Proposition 65 - CRT: Listed date/Carcinogenic substance**  
QUARTZ (CAS 14808-60-7) Listed: October 1, 1988

**International Inventories**

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCs)               | Yes                    |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 12-01-2022  
**Revision date** 05-02-2025  
**Version #** 02  
**Further information** HMIS® is a registered trade and service mark of the NPCA.  
**References**

ACGIH  
EPA: AQUIRE database  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity  
National Toxicology Program (NTP) Report on Carcinogens  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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