

Safety Data Sheet

HB7 GFRC Blend Concrete Mix

SECTION 1: Identification

1.1 Product identifier

Product name HB7 GFRC Blend Concrete Mix

1.2 Other means of identification

Not applicable

1.3 Recommended use of the chemical and restrictions on use

Concrete Bag Mix. For specific intended-use guidance, please refer to technical documents or website.

1.4 Supplier's details

Name Blendhouse, LLC
Address 105 W Dewey Avenue
Building E, Suite 505
Wharton, NJ 07885
USA

Telephone 833-253-6348

1.5 Emergency phone number(s)

833-253-6348

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Sensitization, skin, Cat. 1
- Specific target organ toxicity (single exposure), Cat. 3
- Specific target organ toxicity (repeated exposure), Cat. 1
- Carcinogenicity, Cat. 1A

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage
 H317 May cause an allergic skin reaction
 H335 May cause respiratory irritation
 H350 May cause cancer [via inhalation]
 H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust.
 P264 Wash hands and exposed skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor;
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with applicable Federal, State and local laws and regulations.

2.3 Hazards not otherwise classified (HNOC)

Exposure to this product may aggravate pre-existing eye, skin, and respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Hazardous components

Component	Concentration
Cement, portland, chemicals (CAS no.: 65997-15-1)	<100 % (weight)
Quartz (CAS no.: 14808-60-7)	<100 % (weight)
Magnesium oxide (CAS no.: 1309-48-4)	<95 % (weight)
Limestone (CAS no.: 1317-65-3)	<50 % (weight)
Hexylene glycol (CAS no.: 107-41-5)	<10 % (weight)

Impurities: Gypsum (CAS no.: 13397-24-5) <6%, Calcium oxide (CAS no.: 1305-78-8) <4%, Hexavalent chromium compounds (CAS no.: 18540-29-9) <26 ppm.

The specific chemical identities and/or actual concentrations for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Seek medical help if coughing or other symptoms persist. Inhalation of large amounts requires immediate medical attention.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation or rash develops or persists. Pain or the severity of the burn may not be felt until hours after the exposure. Chemical burns must be treated promptly by a physician. Significant exposure requires immediate medical attention. Wash contaminated clothing before reuse.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.
If swallowed	Get medical attention immediately. Rinse mouth with water. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
Personal protective equipment for first-aid responders	Refer to Section 8 for specific personal protective equipment recommendations.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

If inhaled	May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Severe tissue damage may occur due to the corrosive nature of the product.
In case of skin contact	May cause an allergic skin reaction. Causes severe skin burns. Signs/symptoms of an allergic reaction may include localized redness, swelling, itching, rash, or hives. Signs/symptoms of a skin burn may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.
In case of eye contact	Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

If swallowed	May cause burns to mouth, throat and stomach. May cause gastrointestinal irritation. Severe tissue damage may occur due to the corrosive nature of the product. Signs/symptoms may include abdominal pain.
Chronic exposure	May cause cancer. Causes damage to organs through prolonged or repeated exposure.

- 4.3 Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire.
- 5.2 Specific hazards arising from the chemical
No data available.
- 5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.
- Further information
No data available

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
- 6.2 Environmental precautions
Do not let product enter drains. Avoid dispersal of spilled material and runoff. Inform the relevant authorities if the product has entered the environment, including waterways, soil or air.
- 6.3 Methods and materials for containment and cleaning up
Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter. Place spilled material in suitable, closed containers for disposal. Dispose in accordance with applicable Federal, State and local laws and regulations.
- Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practices. This product reacts with water/moisture to produce caustic calcium hydroxide which can cause severe chemical burns. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes or clothing. Take off immediately all contaminated clothing and wash it before reuse. Avoid inhalation of dust and ingestion. Use only with adequate ventilation. Eating, drinking and smoking is prohibited while using the product. Wash hands with soap and water after handling. For precautions see Section 2. Wear appropriate personal protective equipment as described in Section 8.
- 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry and well-ventilated place. Keep away from incompatible products. Keep in the original container or an approved alternative. Keep container tightly closed. Do not enter a confined space with the product unless appropriate procedures and protection are available. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Cement, portland, chemicals (CAS no.: 65997-15-1)

PEL-TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (OSHA)

REL-TWA: 10 mg/m³ (total), 5 mg/m³ (resp) (NIOSH)

TLV-TWA: 1 mg/m³ (respirable particulate matter) (ACGIH)

PEL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (Cal/OSHA)

Quartz (CAS no.: 14808-60-7)

PEL-TWA: 50 µg/m³ [25 µg/m³ Action Level] (OSHA)

REL-TWA: 0.05 mg/m³ (NIOSH)

TLV-TWA: 0.025 mg/m³ (respirable particulate matter) (ACGIH)

Magnesium oxide (CAS no.: 1309-48-4)

PEL-TWA: 15 mg/m³ (total particulate) (OSHA)

TLV-TWA: 10 mg/m³ (inhalable particulate matter) (ACGIH)

PEL-TWA: 10 mg/m³ (Cal/OSHA)

Limestone (CAS no.: 1317-65-3)

PEL-TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (OSHA)

REL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (NIOSH)

TLV-TWA: 10 mg/m³ (inhalable particles), 3 mg/m³ (respirable particles) (ACGIH)

Hexylene glycol (CAS no.: 107-41-5)

REL-C: 25 ppm (125 mg/m³) (NIOSH)

TLV-TWA: 25 ppm (vapor fraction) (ACGIH)

TLV-STEL: 50 ppm (vapor fraction), 10 mg/mg³ (inhalable particulate matter, aerosol only) (ACGIH)

Gypsum (CAS no.: 13397-24-5)

PEL-TWA: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (OSHA)

REL-TWA: 10 mg/m³ (total), 5 mg/m³ (resp) (NIOSH)

TLV-TWA: 10 mg/m³ (inhalable particulate matter) (ACGIH)

PEL-TWA: 10 mg/m³ (total dust), 5 mg/m³ (respirable fraction) (Cal/OSHA)

Calcium oxide (CAS no.: 1305-78-8)

PEL-TWA: 5 mg/m³ (OSHA)

REL-TWA: 2 mg/m³ (NIOSH)

TLV-TWA: 2 mg/m³ (ACGIH)

PEL-TWA: 2 mg/m³ (Cal/OSHA)

Hexavalent chromium compounds (CAS no.: 18540-29-9)

PEL-TWA: 5 µg/m³ [2.5 µg/m³ Action Level] (OSHA)

REL-TWA: 0.0002 mg/m³ (8 hr TWA) (NIOSH)

TLV-TWA: 0.0002 mg/m³ (inhalable particulate matter) (ACGIH)

TLV-STEL: 0.0005 mg/m³ (inhalable particulate matter) (ACGIH)

PEL-TWA: 0.005 mg/m³ (Cal/OSHA)

PEL-C: 0.1 mg/m³ (Cal/OSHA)

8.2 Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Wear tightly fitting safety goggles.

Skin protection
Use impervious, waterproof, abrasion and alkali-resistant gloves.

Body protection
Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long-legged clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Provide good ventilation. Where risk assessment shows air-purifying respirators are appropriate use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator.

Thermal hazards
No data available.

Environmental exposure controls
Do not let product enter drains. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White solid powder.
Odor	Odorless
Odor threshold	No data available.
pH	10 – 11
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	Not flammable.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	Not applicable.
Explosive properties	Not explosive.

Oxidizing properties

Not oxidizing.

Other safety information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is highly alkaline and will react with acids. The product reacts slowly with water releasing heat and forming a strong alkaline solution.

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

The product is highly alkaline and will react with acids to produce a violent, heat-generating reaction. The product will react with aluminum and other alkali and alkaline earth elements in wet mortar or concrete with a release of hydrogen gas, which can form an explosive mixture with air.

10.4 Conditions to avoid

Keep away from incompatible materials.

10.5 Incompatible materials

Oxidizing materials, acids, aluminum metal and ammonium salts.

Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions.

Silicates dissolve readily in hydrofluoric acid producing a corrosive gas — silicon tetrafluoride.

10.6 Hazardous decomposition products

Hazardous decomposition products should not be produced under normal use conditions.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

If inhaled

May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Severe tissue damage may occur due to the corrosive nature of the product.

In case of skin contact

May cause an allergic skin reaction. Causes severe skin burns. Signs/symptoms of an allergic reaction may include localized redness, swelling, itching, rash, or hives. Signs/symptoms of a skin burn may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

In case of eye contact

Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

If swallowed

May cause burns to mouth, throat and stomach. May cause gastrointestinal irritation. Severe tissue damage may occur due to the corrosive nature of the product. Signs/symptoms may include abdominal pain.

Chronic exposure

May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Acute toxicity

Components:

Hexylene glycol (CAS no.: 107-41-5)

LD50 (oral) – rat – 3700 mg/kg

LD50 (skin) – rabbit – 8.56mL/kg

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Components:

Product may contain hexavalent chromium compounds (CAS no.: 18540-29-9), which may cause an allergic skin reaction.

Germ cell mutagenicity

No data available.

Carcinogenicity

May cause cancer by inhalation of dust.

IARC: Product contains crystalline silica (quartz), which is classified as carcinogenic to humans (Group 1).

NTP: Product contains crystalline silica (quartz), which is classified as known to be a human carcinogen.

OSHA: Product contains crystalline silica (quartz), which is specifically regulated carcinogen by OSHA.

Reproductive toxicity

No data available.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available.

Additional information

Severe tissue damage may occur due to the corrosive nature of the product.

Product contains crystalline silica (quartz). Silicosis, lung cancer and pulmonary tuberculosis are associated with occupational exposure to crystalline silica dust. Statistically significant increases in deaths or cases of bronchitis, emphysema, chronic obstructive pulmonary disease, autoimmune related diseases (scleroderma, rheumatoid arthritis, systemic lupus erythematosus) and renal diseases have been reported.

Exposure to this product may aggravate pre-existing eye, skin, or respiratory conditions.

SECTION 12: Ecological information

Toxicity

No data available on product.

Persistence and degradability

No data available on product.

Bioaccumulative potential

No data available on product.

Mobility in soil

No data available on product.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

The following information is provided for general guidelines only. The shipper is responsible for determining if a product meets one or more criteria for dangerous goods. Please refer to applicable regulations for each mode of transport.

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Acute health hazard. Chronic health hazard.

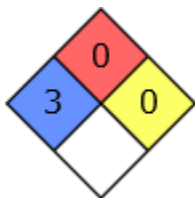
SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

HB7 GFRC Blend Concrete Mix	
HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: May 25, 2021.

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. All materials may present unknown hazards and should be used with caution. In no event shall we be held liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if we have been advised of the possibility of such damages.