

# Safety Data


**GREEN SHIELD**  
PRODUCTS

## 1. Identification of Substance:

**Product Name:** GreenCoat HB-BB

**Chemical Family:** Water-borne Acrylic Coating

**Field of Application:** Coating for Roofing Applications

**Company Details:**
**Green Shield Products**
**Address:**

 40 Cypress Creek Parkway #338  
Houston, Texas 77090

**Telephone:**

1-877-476-7453

**24-Hr. Emergency Phone Number:**

CHEMTREC (800) 424-9300

## 2. Hazards Identification

### GHS Ratings:

Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	2	Human or animal evidence possibly with other information

### GHS Hazards

H317	May cause an allergic skin reaction
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.


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**Signal Word: Danger**



**Acute Toxicity:**

**Eyes:** May cause irritation & burns.

**Skin:** Minor potential for irritation.

**Inhalation:** Liquid may cause irritation.

**Ingestion:** Consult physician.

**Conditions aggravated:** None known.

**Chronic Effects:** Not expected to cause any adverse chronic health effects.

### 3. Composition/information on ingredients:

Chemical Name	CAS number	Weight Concentration %
Limestone	1317-65-3	10.00% - <50.00%
Titanium dioxide	13463-67-7	5.00% - <10.00%
Zinc Oxide	1314-13-2	0.00% - <5.00%
Quartz (SiO <sub>2</sub> )	1897-45-6	<1.00%
Ammonium hydroxide	1336-21-6	<1.00%
Aluminum hydroxide	21645-51-2	10.00% - <55.00%
Biocide	Withheld as Trade Secret	<1.00%
Kaolin	1332-58-7	<1.00%

### 4. First Aid Measures:

**Inhalation:** If symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

**After Eye Contact:** Rinse opened eye for at least 15 minutes under running water.

Remove contact lenses if present and easy to do so, and continue rinsing.

**After Skin Contact:** Clean affected area with soap and plenty of water.

**After Swallowing:** Consult physician.

**Notes to Physician:** Treat symptomatically

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## 5. Firefighting measures

Flash Point: 99 C (210 F)

LEL: N/A

UEL: N/A

**Upper and lower explosive limits listed if known.**

**Suitable Extinguishing Agents:** Water spray, CO<sub>2</sub>, Foam, Dry chemical

**Information about Protection against Explosions and Fires:** Closed containers may rupture when exposed to extreme heat.

**Dangerous Products of Decomposition:** Oxides of carbon, oxides of nitrogen, and traces of HCN

**Protective Equipment:** Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

## 6. Accidental release measures

### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal.

## 7. Handling and Storage

**Information for Safe Handling:** Avoid contact with skin or inhalation.

**Storage Requirements:** Store in dry, well ventilated area. Keep containers tightly closed. Store between 45°F-100°F. Material may freeze below 32°F. Material may settle.

**Regulatory Requirements:** Store according to all local, state, and federal regulations.

## 8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limit
Limestone 1317-65-3	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	Not Established	NIOSH: 10 mg/m <sup>3</sup> TWA respirable dust)
Titanium dioxide 13463-67-7	15 mg/m <sup>3</sup> TWA (total dust)	10 mg/m <sup>3</sup> TWA	Not Established
Zinc Oxide 1314-13-2	Quartz (SiO <sub>2</sub> ) 14808-60-7	2 mg/ m <sup>3</sup> TWA (respirable fraction); 10 mg/ m <sup>3</sup> STEL (respirable fraction)	Not Established
Quartz (SiO <sub>2</sub> ) 14808-60-7	Not Established	0.025 mg/ m <sup>3</sup> TWA (respirable fraction)	Not Established
Aluminum Hydroxide 21645-51-2	Not Established	1 mg/m <sup>3</sup> TWA	Not Established



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**Engineering Controls:** No specific measures required if proper PPE precautions are followed.

**Ventilation:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

**General Protective and Hygienic Measures:** Usual precautionary measures should be adhered to when handling chemicals.

**Personal Protective Equipment:**

**Respiratory Protection:** None required if work area is properly ventilated.

**Hand Protection:** Protective chemical resistant gloves.

**Eye Protection:** Safety glasses with side shields.

**Body Protection:** Protective work clothing. Launder separately.

**Contaminated Gear:** Observe local requirements. Dispose of in accordance with local/state/federal regulations.

## 9. Physical and Chemical Properties:

Physical properties listed where known.

<b>Appearance:</b> Various colored liquid <b>Vapor Pressure:</b> 17 mm Hg @ 20°C/68°F <b>Odor threshold:</b> N/A <b>Specific Gravity:</b> 1.2 - 1.5 <b>Freezing point:</b> N/A <b>Boiling range:</b> 100 - 3000°C <b>Evaporation rate:</b> N/A <b>Explosive Limits:</b> N/A <b>Autoignition temperature:</b> 371°C	<b>Odor:</b> Mild. Amine <b>Odor threshold:</b> N/A <b>pH:</b> 1.44 <b>Melting point:</b> N/A <b>Solubility:</b> N/A <b>Flash point:</b> 210°F, 99°C <b>Flammability:</b> N/A <b>Partition coefficient (n-octanol/water):</b> N/A <b>Decomposition temperature:</b> N/A
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## 10. Stability and Reactivity:

**Incompatible Materials:** Avoid contact with fluorine, strong acids, strong bases, and oxidizing agents.

**Hazardous Polymerization:** Not expected to occur.

**Dangerous Products of Decomposition:** Oxides of carbon, oxides of nitrogen, traces of HCN.

## 11. Toxicological Information:

### Mixture Toxicity

Based on available data the classification criteria are not met.

### Toxicity Values Listed if Known

#### Acute Toxicity:

**Eyes:** May cause irritation & burns.

**Skin:** Minor potential for irritation.

**Inhalation:** Liquid may cause irritation.

**Ingestion:** Consult physician.

**Chronic Effects:** Not expected to cause any adverse chronic health effects.

**Routes of Entry:** Inhalation, ingestion, skin contact, eye contact



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**Target Organs:** Respiratory track, eyes, skin

### Chemicals with Known or Possible Carcinogenic Effects:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
1317-65-3	Limestone	30 to 40%	Limestone
13463-67-7	Titanium dioxide	5 to 10%	Titanium dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed

## 12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

## Component Ecotoxicity

Ammonium hydroxide 96 Hr LC50 *Pimephales promelas*: 8.2 mg/L  
48 Hr EC50 water flea: 0.66 mg/L; 48 Hr EC50 *Daphnia pulex*: 0.66 mg/L

### 13. Disposal considerations

**Recommendation:** Observe local requirements. Dispose of in accordance with local/state/federal regulations.

**Empty Container Precautions:** Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal. Contact the Reusable Industrial Packaging Association (RIPA) at 301-577-3786 to find a drum re-conditioner in North America ([www.reusablepackaging.org](http://www.reusablepackaging.org)).

## 14. Transport Information

### DOT Regulated Components:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:



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## 15. Regulatory Information:

**Regulatory References OSHA Hazard Communication Standard 29 CFR §1910.1200**

**SARA 311/312 Hazard Categories:** None of the ingredients are listed or exempt.

### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

**WARNING:** This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Benzophenone	Known to the State of California to cause cancer.
Silicon dioxide	Known to the State of California to cause cancer.
Titanium Dioxide	Known to the State of California to cause cancer.
Biocide	Known to the State of California to cause cancer.

Titanium dioxide only requires Proposition 65 notification when in dust form and particles of respirable size

### Massachusetts Right To Know List:

The following ingredients are listed or exempt:

Ammonia  
Limestone  
Quartz (SiO<sub>2</sub>)  
Silicon dioxide  
Titanium Dioxide  
Zinc oxide  
Biocide - withheld as TRADE SECRET  
Kaolin

### New Jersey Right To Know List:

The following ingredients are listed or exempt:

Ammonia  
Limestone  
Quartz (SiO<sub>2</sub>)  
Titanium Dioxide  
Zinc oxide



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Propane-1,2-diol  
 Biocide - withheld as TRADE SECRET  
 methyl benzimidazol-2-yl carbamate  
 Biocide - withheld as TRADE SECRET  
 Kaolin

## Pennsylvania Right To Know List:

The following ingredients are listed or exempt:

Ammonia  
 Limestone  
 Quartz (SiO<sub>2</sub>)  
 Silicon dioxide  
 Titanium Dioxide  
 Zinc oxide  
 Propane-1,2-diol  
 Biocide - withheld as TRADE SECRET  
 Kaolin

## SARA 302 Extremely Hazardous Substances:

None

## Chemicals subject to SARA 313 Reporting:

Ammonia	1.0 %
Zinc oxide	1.0 %
Biocide - withheld as TRADE SECRET	1.0 %

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes

## 16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Green Shield Products. The data on these sheets relates only to the specific material designated herein. Green Shield Products. assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws

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