

Safety Data



1. Identification of Substance:

| | |
|---|--|
| Product Name: GreenCoat 40 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: 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% - <50.00% |
| Titanium dioxide | 13463-67-7 | 4.00% - <10.00% |
| Zinc Oxide | 1314-13-2 | 0.00% - <5.00% |
| Quartz (SiO ₂) | 1897-45-6 | <1.00% |
| Ammonium hydroxide | 1336-21-6 | 0.10% - 1.00% |
| 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, CO₂, 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 ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) | Not Established | NIOSH: 10 mg/m ³ TWA respirable dust) |
| Titanium dioxide 13463-67-7 | 15 mg/m ³ TWA (total dust) | 10 mg/m ³ TWA | Not Established |
| Zinc Oxide 1314-13-2 | Quartz (SiO ₂) 14808-60-7 | 2 mg/ m ³ TWA (respirable fraction); 10 mg/ m ³ STEL (respirable fraction) | Not Established |
| Quartz (SiO ₂) 14808-60-7 | Not Established | 0.025 mg/ m ³ TWA (respirable fraction) | 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.

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

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).

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

| | |
|------------------|---|
| 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 (SiO₂)
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 (SiO₂)
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 (SiO₂)
 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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