SAFETY DATA SHEET
AsbestoSafe®

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: AsbestoSafe®
Product Use: Encasement TopCoat
Product Description: Elastomeric Acrylic Industrial Coating, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Non-Hazardous
GHS Label: None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material or Component</th>
<th>CAS Number</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Titanium dioxide (unbound only)</td>
<td>13463-67-7</td>
<td>3-7</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>15-40</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>2-4</td>
</tr>
</tbody>
</table>

*The hazards of the listed titanium dioxide, crystalline silica (Quartz) from limestone and ZnO are for their powder unbound form. In the bound form and when used for application as a roof coating for which the products are designed, these ingredients are not hazardous.

SECTION 4: FIRST-AID INFORMATION

Emergency First Aid Procedures and Description:

Eye Contact: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get immediate medical attention.

Skin Contact: Itching or burning of the skin. Immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Get immediate medical attention.

Inhalation: Nasal irritation, headache, dizziness, nausea, vomiting. Heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation. Get medical attention immediately.

Ingestion: If ingested, do not induce vomiting unless directed to do so by a medical personnel. Get medical attention.
SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, foam or carbon dioxide to extinguish fire.

Specific Hazards Arising from the Chemical: Dangerous when exposed to heat or flame. Will form flammable or explosive mixtures with air at room temperature. Irritating or toxic substances may be emitted upon thermal decomposition. Thermal decomposition products may include oxides of carbon and nitrogen. Vapor or gas may spread to distant ignition sources and flash back. Vapors or gas may accumulate in low areas. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Containers may explode in heat of fire. Vapors may concentrate in confined areas. Liquid will float and may reignite on the surface of water.

Special Protective Action for Firefighters: Water should be used to cool fire-exposed containers, structures and to protect personnel. Use water to dilute spills and flush them away from sources of ignition. Do not flush down sewers or other drainage systems. Exposed firefighters must wear NIOSH approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.

Environmental Precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods of Cleaning Up: Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid breathing dust, vapor or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Use personal protective equipment in handling and observe personal hygiene after use of the product.

Conditions for Safe Storage: Storage Temperature: Minimum: 40°F (4.44°C) Maximum: 100°F (37.77°C)
Storage Period: 12 months
Keep container closed when not in use. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Regulation</th>
<th>Type of Listing</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>JSOH OELs (05 2009) US ACGIH (2011)</td>
<td>TWA TWA TWA</td>
<td>1 mg/m³ (Respirable dust) 4 mg/m³ (Total dust) 10 mg/m³</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>1314-13-2</td>
<td>ACGIH</td>
<td>TWA</td>
<td>2 mg/m³ 10 mg/m³</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

**AsbestoSafe®**

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Revision Number: 4
Revision Date: 01-10-2019

### Engineering Controls:
Mechanical local exhaust ventilation at point of containment release.

### Protective Measures:
Employees should wash their hands and face before eating, drinking or using tobacco products. Educate and train employees in the safe use and handling of this product. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE AVAILABLE.

### Eye/Face Protection:
Chemical splash goggles (ANSI Z-87.1 or approved equivalent).

### Skin Protection:
Impervious (Neoprene gloves).

### Respiratory Protection:
Wear suitable respirator (MSHA/NIOSH approved or equivalent) where exposure limits are exceeded.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Liquid
- **Color:** Varies from white, beige, gray, green, brick-red
- **Odor:** Slight amine odor
- **Odor Threshold:** Not Available
- **pH:** 8.5-10.4
- **Melting Point/Freezing Point:** 0°C (32°F) similar to water
- **Initial Boiling Point and Boiling Range:** 100°C (212°F) similar to water
- **Flash Point:** Not applicable (water based product), however, solid material will support combustion if water has been evaporated
- **Evaporation Rate:** Not available
- **Flammability (Solid, Gas):** Not Available
- **Upper/Lower Flammability or Explosive Limits:** Not Available
- **Vapor Pressure:** 22.7 mm Hg at 20°C (68. °F) similar to water
- **Vapor Density:** Not Available
- **Relative Density:** 11.0-12.0#/gal
- **Solubility(ies):** Soluble in water
- **Partition Coefficient: N-Octanol/Water:** Not Available
- **Auto-Ignition Temperature:** Not Available
- **Decomposition Temperature:** Not Available
- **Viscosity:** 100-115 KU

Note: The above data are typical values and must not be construed as a specification.

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### SECTION 10: STABILITY AND REACTIVITY INFORMATION
Reactivity: Non-reactive.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions/Materials to Avoid: Keep from freezing/No known materials to avoid.

Incompatible Materials: None known.

Hazardous Decomposition: By Thermal decomposition: carbon monoxide, carbon dioxide, acrylic monomers, and other potentially toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute Oral</th>
<th>Acute Dermal</th>
<th>Acute Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>LD50 rat &gt;5000 mg/kg</td>
<td>LD50: &gt;5000 mg/kg</td>
<td>LC50/4h/rat (dust/mist): &gt;6.82 mg/l, 4h (Rat)</td>
</tr>
<tr>
<td>Limestone</td>
<td>LD50 rat &gt;6450 mg/kg</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Not Available</td>
<td>Not Available</td>
<td>LC50 &gt;2500 mg/m³, (mouse)</td>
</tr>
<tr>
<td>Mixture</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Skin/Eye Irritation:

Titanium Dioxide: Rabbit, Exposure Time, 24h, Non-Irritating
Limestone & Zinc Oxide: Not available
Mixture: Not available

Mutagenicity:

Titanium Dioxide: Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)
Genetic Toxicity in Vivo: Drosophila SLRL test: negative (Drosophila melanogaster) negative
Limestone & Zinc Oxide: Not available
Mixture: Not available

Carcinogenicity:

Titanium Dioxide (Ti-Pure, DuPont) Rat, Male/Female, inhalation-According to IARC, several rat inhalation and intratracheal installation studies using titanium dioxide have shown increases in benign and malignant lung tumors. Based upon all study results, DuPont scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experience in the workplace. Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, “No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints.”

Quartz (in Limestone): ACGIH: A2-suspected human carcinogen
NIOSH: Potential occupational carcinogen
IARC: Monograph 68 (1997) (Listed under Crystalline Silica inhaled in the form of quartz or Cristobalite)
From occupational sources (Group 1-Carcinogenic to humans)

<table>
<thead>
<tr>
<th>Component</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone &amp; Zinc Oxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Mixture</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Sensitization:</strong></td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>Dermal: non-sensitizer (Guinea pig, Maximization Test), non-sensitizer</td>
</tr>
<tr>
<td></td>
<td>(Human, Patch Test)</td>
</tr>
<tr>
<td></td>
<td>Repeated Dose toxicity: 28 days, Inhalation: NOAEL: 35mg/m3, (Rat)</td>
</tr>
<tr>
<td>Quartz (in Limestone)</td>
<td>Not available</td>
</tr>
<tr>
<td>Zinc Oxide</td>
<td>Not available</td>
</tr>
<tr>
<td>Mixture</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Reproductive toxicity, STOT, Aspiration Hazard:</strong></td>
<td>Not available for components and mixture in the products listed.</td>
</tr>
</tbody>
</table>

**Other Toxicological Information:**

*Reviewed human exposure data did not suggest an association between occupational exposure to titanium dioxide and cancer. Additionally, the IARC working group determined that, “No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other material, such as in paints.”

**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecotoxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>Aquatic Toxicity: 96 hrs. LC50: Fathead minnow &gt;1,000mg/l; LC50: &gt;1000 mg/l (Golden Orfe (Leuciscus idus), 48 hours)</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity to Aquatic invertebrates: EC50 &gt;3mg/l (Water Flea (Daphnia Magna))</td>
</tr>
<tr>
<td></td>
<td>Toxicity to Microorganisms: EC50 &gt;10,000 mg/l, (Pseudomas fluorescens, 24 hrs.)</td>
</tr>
<tr>
<td>Limestone</td>
<td>Acute and Prolonged toxicity to Fish: LC50: 56,000 mg/l (Mosquitofish (Gambusia affinis), 48 hours)</td>
</tr>
</tbody>
</table>

**Persistence and Degradability, Bioaccumulative Potential, Mobility in Soil:** Not available for components and mixtures in the products listed.

**SECTION 13: DISPOSAL INFORMATION**

**Environmental Precautions:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental laws.

**Empty Container Precautions:** Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

**SECTION 14: TRANSPORTATION INFORMATION**

<table>
<thead>
<tr>
<th>Component</th>
<th>Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN proper Shipping Name:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Transport Hazard Class:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental Hazards:</td>
<td>Not hazardous</td>
</tr>
<tr>
<td>Land Transport (DOT):</td>
<td>Non-Regulated</td>
</tr>
<tr>
<td>Sea Transport (IMDG):</td>
<td>Non-Regulated</td>
</tr>
</tbody>
</table>
Air Transport (ICAO/IATA): Non-Regulated
Special Precautions: No data available

SECTION 15: REGULATORY INFORMATION

United States TSCA Inventory (US.TSCA): All components of this product are in compliance with the inventory listing requirement of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

CERCLA Information (40CFR302.4): Release of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to the state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title Section 304.

SARA TITLE III, Sections 302, 304, 311, 312: This material does not contain any component listed in EPA’s List of List.

Workplace Classification
OSHA: This product is considered not hazardous under OSHA Hazard Communication Standard (29CFR 1910.1200).

WHMIS: This product and its components are not listed as a ‘controlled product’ under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Proposition 65: This product contains a chemical known to cause cancer or reproductive toxicity.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Authoritative Body</th>
<th>Date Entered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide (airborne, unbound particles of respirable size)</td>
<td>(none), several substances for single listing</td>
<td>Labor Code (LC)</td>
<td>September 2, 2011</td>
</tr>
<tr>
<td>Silica, crystalline (airborne particles of respirable size); 0.5% in Limestone</td>
<td>(none), several substances for single listing</td>
<td>State’s Qualified Expert (SQE)</td>
<td>October 1, 1988</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS) Rating:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Prepared By: GLOBAL Encasement, Inc.
Customer Service Department

Revision Date: Jan 10, 2019
Last Revision Date: Jan 12, 2016
Version #: 4
This SDS adheres to the standards and regulatory requirements of the United States and has been written under the guidance of the Globally Harmonized System of Classification and Labeling of Chemicals.

Key of Acronyms:

ACGIH    American Conference of Governmental Industrial Hygienists
DOT      Department of Transportation
GHS      Globally Harmonized System (of Classification and Labeling of Chemicals)
ICAO     International Civil Aviation Organization
IARC     International Agency for Research on Cancer
IATA     International Air Transportation Association
IMDG     International Maritime Dangerous Goods
LC50     Lethal Concentration STEL Short Term Exposure Limit
LD50     Median Lethal Dose or Lethal Dose, 50 %
NFPA     National Fire Protection Association
NIOSH    National Institute for Occupational Safety
NOAEL    No-Observed-Adverse-Effect-Level
OSHA     Occupational Safety and Health Administration
PEL      Permissible Exposure Limit
SARA     Superfund Amendments and Reauthorization Act
TLV      Threshold Limit Value
TRI      Toxic Release Inventory
TWA      Time Weighted Average

The information in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. The information relates only to the specific material designated and may not be valid for such material used in combination with or any other material in any process, unless specified in the test.

End of Safety Data Sheet