

SAFETY DATA SHEET

GRANITELITE VERTICAL-BOND

Section 1: PRODUCT AND COMPANY IDENTIFICATION

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| 1.1 Product Name: | GraniteLite Vertical-Bond |
| Product Form: | Mixture |
| 1.2 Product Use: | Liquid Bonding Agent |
| 1.3 Supplier/Manufacturer: | Umaco, Inc. 60 Rear Newhall Street Lowell, MA 01852 Phone: 978-453-8881 |
| 1.4 Emergency Number: | CHEMTREC (800) 424-9300 |

Section 2: HAZARDS IDENTIFICATION

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| 2.1 Classification of the Chemical: | |
| Hazard Class: | Not Classified |
| 2.2 Label Elements: | No Labeling Applicable |
| 2.3 Additional Information: | |
| Hazards not otherwise classified: | N/A 70% of the mixture consists of ingredient(s) of unknown acute toxicity. |

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| 3.1 Mixtures: | | | |
|----------------------|--------------|-------------|------------------------------|
| Ingredient | CAS # | Wt.% | GHS-US Classification |
| Not applicable | - | - | - |

None by OSHA HazCom 2012 criteria.

Section 4: FIRST AID MEASURES

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| 4.1 Description of First Aid Measures: | |
| Eye: | In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention. |
| Skin: | In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation persists. |
| Inhalation: | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell. |

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| Ingestion: | If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention. |
| 4.2 Most Important Symptoms & Effects both Acute & Delayed: | |
| Eye: | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Skin: | May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| Inhalation: | May cause respiratory tract irritation. |
| Ingestion: | May be harmful if swallowed. May cause gastrointestinal irritation if ingested. |
| 4.3 Indication of Any Immediate Medical Attention and Special Treatments Needed: | |
| Note to Physicians: | Symptoms may not appear immediately. |
| Specific Treatments: | In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible). |

Section 5: FIRE FIGHTING MEASURES

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| 5.1 Extinguishing Media: | |
| Suitable Extinguishing Media: | Powder, Water Fog, Foam, Carbon Dioxide |
| Unsuitable Extinguishing Media: | None known |
| 5.2 Special Hazards Arising From the Chemical: | |
| Products of Combustion: | May include, and are not limited to: oxides of carbon |
| 5.3 Special Protective Equipment and Precautions for Fire Fighters: | Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). |

Section 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 Personal Precautions, Protective Equipment and Emergency Procedures: | Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
| 6.2 Methods and Materials for Containment/Cleanup: | |

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| Methods for Containment: | Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). |
| Methods for Cleanup: | Scoop up material and place in a disposal container. |

Section 7: HANDLING AND STORAGE

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| 7.1 Precautions for Safe Handling: | |
| Handling: | Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Handle and open container with care. When using do not eat, drink, or smoke. |
| General Hygiene Advice: | Laundry contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. |
| 7.2 Conditions for Safe Storage, Including Any Incompatibilities: | |
| Storage: | Keep out of the reach of children. Keep container tightly closed and dry. Keep cool. Keep from freezing. Do not store at temperature above 38 °C (100 °F). |

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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| 8.1 Control Parameters: | | |
| Exposure Guidelines: | | |
| Ingredient | OSHA-PEL | ACGIH-TLV |
| N/A | N/A | N/A |

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| 8.2 Exposure Controls: | |
| Engineering Controls: | Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. |
| 8.3 Individual Protective Measures: | |
| Personal Protective Equipment: | |
| Eye/Face Protection: | Safety glasses with side shields. |
| Hand Protection: | Wear chemically resistant protective gloves. |
| Skin/Body Protection: | Wear suitable protective clothing. |
| Respiratory Protection : | None necessary under normal conditions of use. A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. |

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| Environmental Exposure Controls: | Maintain levels below community environmental protection thresholds. |
| Other Information: | Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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| 9.1 Information on Basic Physical and Chemical Properties: | |
| Appearance: | N/A |
| Color: | White |
| Odor: | Slight, sweet |
| Odor Threshold: | N/A |
| Physical State: | Liquid |
| pH: | 4.5 - 6 |
| Viscosity: | N/A |
| Freezing Point: | ~ 0 °C (~ 32°F) |
| Boiling Point: | >100 °C (>212°F) |
| Melting Point: | ~ 0 °C (~ 32°F) |
| Flash Point: | >100°C (> 212°F) |
| Evaporation Rate: | N/A |
| Flammability: | Not flammable |
| Lower Flammability Limit: | N/A |
| Vapor Pressure: | 17.5 mm Hg @ 20°C (68°F) |
| Vapor Density: | N/A |
| Relative Density: | 1.08 - 1.1 |
| Bulk Density: | N/A |
| Lower Explosion Limit: | N/A |
| Upper Explosion Limit: | N/A |
| Solubility : | Miscible |
| Coefficient of Water/Oil Distribution: | N/A |
| Auto-ignition Temperature: | N/A |
| Percent Volatile, wt. %: | N/A |
| VOC Content, wt. %: | <1 g/l |

Section 10: STABILITY AND REACTIVITY

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| 10.1 Reactivity: | No dangerous reaction known under conditions of normal use. |
| 10.2 Chemical Stability: | Stable under normal conditions. |
| 10.3 Possibility of Hazardous Reactions: | No dangerous reaction known under conditions of normal use. |
| 10.4 Conditions to Avoid: | Heat. Incompatible materials. Keep from freezing. |
| 10.5 Incompatible Materials: | Strong oxidizers. Water reactive materials. |
| 10.6 Hazardous Decomposition Products: | May include, and are not limited to; oxides of carbon. |

Section 11: TOXICOLOGICAL INFORMATION

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| 11.1 Information on Toxicological Effects | |
| After Eye Contact: | May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| After Skin Contact: | May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. |
| After Ingestion: | May be harmful if swallowed. May cause gastrointestinal irritation if ingested. |
| After Inhalation: | May cause respiratory tract irritation. |
| Acute Toxicity: | Not classified. |

| Ingredient | ATE (oral) | ATE (dermal) | ATE (inhalation) |
|-------------------|-------------------|---------------------|-------------------------|
| Mixture | N/A | N/A | N/A |

11.2 Delayed, Immediate and Chronic Effects of Short and Long Term Exposure:

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| Skin Corrosion/Irritation: | N/A |
| Serious Eye Damage/Irritation: | N/A |
| Respiratory Sensitization: | N/A |
| Skin Sensitization: | N/A |
| STOT-Single Exposure: | N/A |
| Chronic Health Effects: | N/A |
| Carcinogenicity: | N/A |
| Germ Cell Mutagenicity: | N/A |
| STOT-Repeated Exposure: | N/A |
| Aspiration Hazard: | N/A |
| Toxicologically Synergistic Materials: | N/A |
| Other Information: | N/A |

Section 12: ECOLOGICAL INFORMATION

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| 12.1 Ecotoxicity: | May cause long term adverse effects in the aquatic environment. |
| 12.2 Persistence and Degradability: | N/A |
| 12.3 Bioaccumulative Potential | |
| Bioaccumulation: | N/A |
| 12.4 Mobility in Soil: | N/A |
| 12.5 Other Adverse Effects: | N/A |

Section 13: DISPOSAL CONSIDERATION

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| 13.1 Waste Treatment Methods: | |
| Disposal Method: | This material must be disposed of in accordance with local, state, provincial, and federal regulations. |
| Other disposal recommendations: | N/A |

Section 14: TRANSPORTATION INFORMATION

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| 14.1 UN Number: | Not Regulated |
| 14.2 UN Proper Shipping Name: | Not Applicable |
| 14.3 Transport Hazard Class (ES): | Not Applicable |
| 14.4 Packing Group: | Not Applicable |
| 14.5 Environmental Hazards: | Not Applicable |
| 14.6 Special Precautions for User: | Do not handle until all safety precautions have been read and understood |

Section 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations Specific for the Chemical:

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| US FEDERAL REGULATIONS: | N/A |
| US STATE REGULATIONS: | This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. |

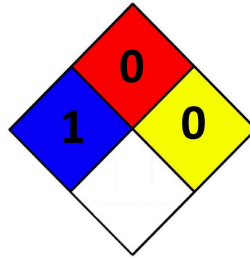
NFPA: National Fire Protection Association:

Health: 1

Fire: 0

Reactivity: 0

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| Hazard Rating: | | | | |
| 0 = minimal | 1 = slight | 2 = moderate | 3 = severe | 4 = extreme |



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|---------------|--------------------|---------------------|-----------------|
| Blue = Health | Red = Flammability | Yellow = Reactivity | White = Special |
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| Source Agency Carcinogen Classifications | |
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| IARC (I) | <p>International Agency for Research on Cancer. 1 - The agent (mixture) is carcinogenic to humans. 2A - The agent (mixture) is probably carcinogenic to humans. 2B - The agent (mixture) is possibly carcinogenic to humans. 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans. 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</p> |
| NTP (N) | <p>National Toxicology Program. 1 - Evidence of Carcinogenicity 2 - Known Human Carcinogens 3 - Reasonably anticipated to be Human Carcinogens 4 - Substances delisted from report on Carcinogens 5 - Twelfth Report: items under construction</p> |

Section 16: OTHER INFORMATION

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| Date of Preparation: | July 1, 2021 |
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