

BioPin™ Material Safety Data Sheet

| Section 1 – CHEMICAL, PRODUCT AND COMPANY IDENTIFICATION |
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| Supplier Information: All Stake Supply 19-21 Charles Street St Marys NSW 2760 |
| Product Use: Anchor for erosion control blankets. |

| Section 2 – HAZARDS IDENTIFICATION |
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| Product Overview: Product is a 100% biodegradable staple GHS LABEL: ! Signal Word: WARNING |
| Potential Health Effects: Eyes: Data not available Skin: Data not available Ingestion: Data not available Inhalation: Data not available |

| Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS |
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| Components | CAS Number | % Weight |
|---|-------------------|-----------------|
| Polyhydroxybutyric Acid Copolymers and Mineral Filler | N/A | 100% |

| Section 4 – FIRST AID MEASURES |
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| Eyes: No Special Requirement Skin: No Special Requirement Ingestion: No Special Requirement Inhalation: No Special Requirement Notes to Physician: None |

| Section 5 – FIRE FIGHTING MEASURES |
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| Flash Point: N/A Method Used: N/A Upper Flammable Limit (UFL): N/A Lower Flammable Limit (LFL): N/A Auto Ignition: N/A Flammability Classification: N/A Rate of Burning: N/A |
| Extinguishing Media: Water Spray, Carbon Dioxide, Dry Chemical Powder, or Appropriate Foam |
| Special Fire Fighting Procedures: None |

| Section 6 – ACCIDENTAL RELEASE MEASURES |
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| Containment Procedures: N/A |
| Clean-Up Procedures: N/A |
| Evacuation Procedures: N/A |

Special Instructions: N/A

Section 7 – HANDLING AND STORAGE

Procedures for Handling: Good industrial practice in housekeeping and personal hygiene should be followed. Minimize dust.

Recommended Storage Methods: Good storage stability, but avoid extremes of temperature and humidity. Recommended shelf life is two years.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: No special equipment required

Section 9 – PHYSICAL & CHEMICAL PROPERTIES

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| Appearance: Tan Granules | Odor: Mild |
| Physical State: Solid | Molecular Weight: $\approx >100,000$ (by GPC) |
| Chemical Formula: $C_4H_6O_2$ (repeat unit) | Melting Point: $100^\circ - 190^\circ C$ |
| Boiling Point: N/A | Freezing Point: N/A |

Section 10 – CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability: Stable

Incompatibility: Strong oxidizing agents and strong acids

Hazardous Decomposition Products: Carbon Monoxide and carbon dioxide

Hazardous Polymerization: Hazardous polymerization will not occur

Section 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity/Target Organ Information: To the best of our knowledge, the chemical, physical, and toxicological properties have been thoroughly investigated

Epidemiology: No data available for this product

Carcinogenicity: No data available for this product

Reproductive Toxicity: No data available for this product

Neurotoxicity: No data available for this product

Mutagenicity: No data available for this product

Other Information: No data available for this product

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No data available for this product

Environmental Fate: 100% of the product is composed of biodegradable components

Section 13 - DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions: No Special requirements

Disposal Instructions:

Dispose of waste material in accordance with all applicable Federal, State or provincial and local environmental regulations.

Section 14 – TRANSPORTATION INFORMATION

DOT Information:

Shipping Name: Not regulated as a hazardous material

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| Hazard Class: Not regulated |
| UN/NA #: Not regulated |
| Packing Group: Not regulated |
| Label(s) Required: None |
| Additional Shipping Information: None |
| International Transportation Regulations: Not regulated as a dangerous goods. |

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| Section 15 – REGULATORY INFORMATION |
| US Federal Regulations: N/A |
| State Regulations: N/A |
| Other Regulations: N/A |

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| Section 16 – OTHER INFORMATION |
| This information is believed to be correct, however, All Stake Supply makes no representations as to its comprehensiveness or accuracy. Individuals receiving this information must use independent judgement to determine its appropriateness for a particular purpose. All Stake Supply shall not be held liable for any damage resulting from handling or from contact with the above product. |
| Key/Legend: DOT: Department of Transportation EPA: Environmental Protection Agency GPC: Gel Permeation Chromatography N/A: Not Applicable or Not Available NFPA: National Fire Protection Association HMIS: Hazard Materials Information System |
| HMIS Ratings: Health: N/A, Fire: N/A, Reactivity: N/A, Personal Protection: N/A |
| NFPA Ratings: Health: N/A, Fire: Reactivity: N/A, Other: N/A |
| MSDS Contact: All Stake Supply Phone: 1300 130 123 |