E-Staple[®]/Biodegradable Anchoring Staple

Section 1 - CHEMICAL, PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Information: Supplier Information:

Metabolix, Inc. American Excelsior Company

21 Erie Street 850 Avenue H East Cambridge, MA 02139 Arlington, TX 76011

Chemical Name:BlendSDS Origination Date:03-01-06Synonyms:NoneLast Revision Date:03-24-15

Internal Product Codes: 078

Product Use: Anchor for erosion control blankets.

Section 2 - HAZARDS IDENTIFICATION

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		
Components	CAS Number	% Weight
Polyhydroxybutyric Acid Copolymers and Mineral Filler	N/A	100%

Section 4 - FIRST AID MEASURES

Eyes: No Special Requirement.

Skin: No Special Requirement.

Ingestion: No Special Requirement.

Inhalation: No Special Requirement.

Notes to Physician: None.

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Section 5 - FIRE FIGHTING MEASURES

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
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			
Appearance:	Tan Granules	Odor:	Mild
Physical State:	Solid	Molecular Weigh	$t: \approx >100,000 \text{ (by GPC)}$
Chemical Formula:	$C_4H_6O_{2\;(repeat\;unit)}$	Melting Point:	100° – 190° C
Boiling Point:	N/A	Freezing Point:	N/A

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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 C	Organ Information:	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not 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.		
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 dangerous goods.		

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Section 15 - REGULATORY INFORMATION

US Federal Regulations: N/A

State Regulations: N/A
Other Regulations: N/A

Section 16 - OTHER INFORMATION

This information is believed to be correct, however, Metabolix, Inc. makes no representations as to its comprehensiveness or accuracy. Individuals receiving this information must use independent judgment to determine its appropriateness for a particular purpose. Metabolix, Inc. 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: N/A, Reactivity: N/A, Other: N/A

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