

Material Safety Data Sheet

I PRODUCT IDENTIFICATION

Manufacturer's Name Mulch & Seed Innovations, LLC		Regular Telephone 256-927-7445
		Emergency Telephone 256-927-8823
Address 7265 Alabama Highway 9 South, Centre, AL 35960		
Chemical Name and Synonyms CELLULOSE, LIGNIN, HEMICELLULOSE		Cas No. Un. No.
Trade Name GeoSkin		
and Synonyms COTTON FIBER (STAPLE OR LINT, LINTERS, AND GIN BY-PRODUCT FIBERS) AND STRAW		
Chemical Family CELLULOSE		Formula NATURAL POLYMER OF CELLULOSE
Shipping Name: DOT: NOT RESTRICTED ARTICLE		IATA: NOT RESTRICTED ARTICLE

II HAZARDOUS INGREDIENTS

Material or Component	Cas No. Un No.	%	Hazard Data
Anionic Water Soluble Co-Polymer (Silt Stop)		< 1%	NONE
Green Dye	18015-76-4	< 1%	
Proprietary additives (non-toxic)		< 1%	

III PHYSICAL DATA

Boiling Point, 760 mm Hg NOT APPLICABLE	Melting Point 260 - 270° C
Specific Gravity (H ₂ O=1) 1.27 - 1.61	Vapor Pressure (mm Hg at °c) NOT APPLICABLE
Vapor Density (air=1) NOT APPLICABLE	Solubility in H ₂ O, % by wt. INSOLUBLE
% Volatiles by Vol. APPROXIMATELY 4% to 9% MOISTURE	Evaporation Rate (=1) NOT APPLICABLE
Appearance and Odor DARK GREEN/FIBROUS, WITH ODOR OF STRAW	pH (as is) 5-6 pH at

IV FIRE AND EXPLOSION DATA

Flash Point NOT APPLICABLE (Test method)	Auto Ignition Temperature *550 °F	Flammable Limits in Air, % by Vol.	Higher Lower	Not APPLICABLE
Extinguishing Media WATER, STEAM, FOAM, DRY CHEMICALS, OR NON OXIDIZING GASES SUCH AS CARBON DIOXIDE OR NITROGEN				
Special Fire Fighting Procedures NONE				
Unusual Fire and Explosion Hazard NONE				

* THERMOGRAVIMETRIC ANALYZER

V HEALTH HAZARD INFORMATION

Health Hazard Data	Hazard Classification	Basis for Classification	Source
<u>Routes of Exposure</u> Inhalation Skin Contact Skin Absorption Eye Contact Ingestion	<p>NONE</p> <p>NONE</p> <p>NONE</p> <p>NONE</p> <p>NONE</p>	<p>COTTON EXEMPTED BY CFR 1910.1043 (a) (2)</p>	<p>CFR 1910.1043 CFR 1910.1000 TABLE 21</p>
<u>Effects of Overexposure</u> Acute Overexposure Chronic Overexposure	<p>POSSIBLE ACUTE CHEST TIGHTNESS AND COUGH TO THOSE PERSONS REACTIVE TO COTTON DUST. NO CHRONIC HAZARD SHOWN. ALLERGIES AND DERMATITIS MAY BE AGGRAVATED BY EXPOSURE. GENERALLY AGGRAVATED BY EXPOSURE. PRE-EXISTING CHRONIC LUNG DISEASE MAY BE AGGRAVATED BY EXPOSURE TO DUST.</p>		
<u>Emergency and First Aid Procedures</u> Eyes Skin Inhalation Ingestion	<p>FLUSH EYES WITH WATER. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS</p> <p>USE WATER TO CLEANSE. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS</p> <p>REACTIVE PERSON SHOULD BE MOVED TO NON-DUST WORK AREA.</p> <p>NONE</p>		
Notes to Physician			

VI REACTIVITY DATA

Conditions Contributing to Instability	STRONG ACIDS DEGRADE CELLULOSE POLYMERS; HIGH TEMPERATURE (ABOVE 350°F) IN AIR SLOWLY DEGRADES FIBER
Incompatibility (Materials to Avoid)	STRONG MINERAL ACIDS; STRONG OXIDIZING MEDIA
Hazardous Decomposition Products	IF BURNED WITH INSUFFICIENT OXYGEN, CARBON MONOXIDE IS GENERATED AS A PRODUCT OF COMBUSTION
Conditions Contributing to Hazardous Polymerization	NONE

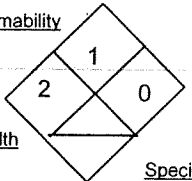
VII SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled	USUAL HOUSEKEEPING PROCEDURES; SWEEP, BAG OR BALE LOOSE OR WASTE FIBERS
Neutralizing Chemicals	NOT APPLICABLE
Waste Disposal Method of Spill or Leak	SOLID WASTE DISPOSAL: COMPOST OR INCINERATE

VII SPECIAL PROTECTION INFORMATION

Ventilation Requirements	NONE
<u>Specific Personal Protective Equipment</u>	
Respiratory (Specify in detail)	DUST MASK APPROVED FOR NUISANCE DUST
Eye	NONE
Gloves	NONE
Other Clothing and Equipment	USE GOOD WORK PRACTICES. WASH HANDS AFTER HANDLING.

IX SPECIAL PRECAUTIONS

<p>Labeling Information and Warnings</p> <p align="center">NONE (NOT RESTRICTED ARTICLE)</p>	<p>Data for Hazards Information Label</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black;"><u>Hazard Code</u></td> <td style="width:50%; border-bottom: 1px solid black;"><u>Flammability</u></td> </tr> <tr> <td>4= Extreme</td> <td></td> </tr> <tr> <td>3= High</td> <td></td> </tr> <tr> <td>2= Moderate</td> <td></td> </tr> <tr> <td>1= Slight</td> <td></td> </tr> <tr> <td>0= Insignificant</td> <td></td> </tr> </table> <div style="display: flex; align-items: center; justify-content: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>Reactivity</p> </div> </div>	<u>Hazard Code</u>	<u>Flammability</u>	4= Extreme		3= High		2= Moderate		1= Slight		0= Insignificant	
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<p>Other Handling and Storage Requirements</p> <p>TO AVOID MICROBIOLOGICAL DAMAGE TO FIBER, AVOID PROLONGED STORAGE IN DAMP OR WET CONDITION</p>													

X DISPOSAL

<p>Waste Disposal Method</p> <p>SOLID WASTE DISPOSAL COMPOST, OR INCINERATE</p>
<p>Aquatic Toxicity (e.g., 96 hr TLM): NOT APPLICABLE</p>

XI GOVERNMENT REGULATIONS

<p><u>Reference to Applicable Government Regulations</u></p> <p>Federal</p> <p align="center">CFR 1910.1043 CFR1910.1000 TABLE Z-1</p> <p>State</p> <p>Other</p>	<p align="center"><u>Regulation Highlights</u></p> <p align="center">COTTON FIBER IS EXEMPTED BY CFR 1910.1043 (A) (2)</p>
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