

# Material Safety Data Sheet

## I PRODUCT IDENTIFICATION

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

## II HAZARDOUS INGREDIENTS

Material or Component	Cas No. Un No.	%	Hazard Data
Proprietary tackifier (non-toxic)		< 1%	NONE
Green Dye		< 1%	
Proprietary additives (non-toxic)		< 1%	

## III PHYSICAL DATA

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

## IV FIRE AND EXPLOSION DATA

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

\* 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	NONE  NONE  NONE  NONE  NONE	COTTON EXEMPTED BY CFR 1910.1043 (a) (2)	CFR 1910.1043 CFR 1910.1000 TABLE 21
<u>Effects of Overexposure</u> Acute Overexposure  Chronic Overexposure	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.		
<u>Emergency and First Aid Procedures</u> Eyes  Skin  Inhalation  Ingestion	FLUSH EYES WITH WATER. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS  USE WATER TO CLEANSE. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS  REACTIVE PERSON SHOULD BE MOVED TO NON-DUST WORK AREA.  NONE		
Notes to Physician			

### VI REACTIVITY DATA

Conditions Contributing to Instability	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

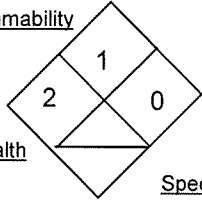
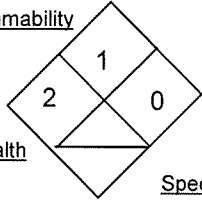
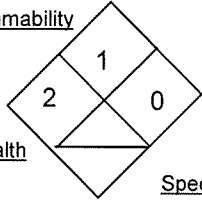
### VII SPILL OR LEAK PROCEDURES

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 border="0"> <tr> <td><u>Hazard Code</u></td> <td><u>Flammability</u></td> <td rowspan="5">  </td> <td><u>Reactivity</u></td> </tr> <tr> <td>4= Extreme</td> <td></td> <td></td> </tr> <tr> <td>3= High</td> <td></td> <td></td> </tr> <tr> <td>2= Moderate</td> <td></td> <td></td> </tr> <tr> <td>1= Slight</td> <td><u>Health</u></td> <td><u>Special</u></td> </tr> <tr> <td>0= Insignificant</td> <td></td> <td></td> <td></td> </tr> </table>	<u>Hazard Code</u>	<u>Flammability</u>		<u>Reactivity</u>	4= Extreme			3= High			2= Moderate			1= Slight	<u>Health</u>	<u>Special</u>	0= Insignificant			
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Other Handling and Storage Requirements

TO AVOID MICROBIOLOGICAL DAMAGE TO FIBER, AVOID PROLONGED STORAGE IN DAMP OR WET CONDITION

**X DISPOSAL**

Waste Disposal Method

SOLID WASTE DISPOSAL  
COMPOST, OR INCINERATE

Aquatic Toxicity (e.g.. 96 hr TLM): NOT APPLICABLE

**XI GOVERNMENT REGULATIONS**

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