

**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 XT</b>		
and Synonyms <b>STRAW AND RECLAIMED COTTON PLANT MATERIAL FIBER (STAPLE OR LINT, LINTERS, AND GIN BY-</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
Green Dye		< 1%	
Proprietary additives (non-toxic)		3%	

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 10% 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 in Air, % by Vol. Higher <b>Not</b> 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	NONE	COTTON EXEMPTED BY CFR 1910.1043 (a) (2)	CFR 1910.1043 CFR 1910.1000 TABLE 21
Skin Contact	NONE		
Skin Absorption	NONE		
Eye Contact	NONE		
Ingestion	NONE		
<u>Effects of Overexposure</u>			
Acute Overexposure	POSSIBLE ACUTE CHEST TIGHTNESS AND COUGH TO THOSE PERSONS REACTIVE TO COTTON DUST. NO CHRONIC HAZARD SHOWN.		
Chronic Overexposure	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	FLUSH EYES WITH WATER. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS		
Skin	USE WATER TO CLEANSE. CONTACT PHYSICIAN IF ALLERGIC REACTIONS OCCUR WITHIN 0-2 HOURS		
Inhalation	REACTIVE PERSON SHOULD BE MOVED TO NON-DUST WORK AREA.		
Ingestion	NONE		
<u>Notes to Physician</u>			

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

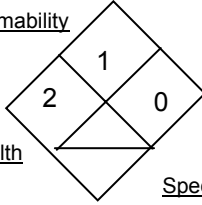
VII SPILL OR LEAK PROCEDURES

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"><b>NONE (NOT RESTRICTED ARTICLES)</b></p>	<p>Data for Hazards Information Label</p> <p><u>Hazard Code</u>    <u>Flammability</u></p> <p>4= Extreme 3= High 2= Moderate 1= Slight 0= Insignificant</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-right: 10px;"> <p><u>Health</u></p> </div>  <div style="margin-left: 10px;"> <p><u>Reactivity</u></p> </div> </div> <p align="right"><u>Special</u></p>
<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):        <b>NOT APPLICABLE</b></p>
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**XI GOVERNMENT REGULATIONS**

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