



Material Safety Data Sheet

GoundControl Hydromulch Hy-C1, Hy-C2, Hy-C3

Section I PRODUCT IDENTIFICATION

Manufacturer's Name Mulch & Seed Innovations, LLC		Regular Telephone 256-927-7445
Address 7265 Alabama Highway 9 South, Centre, AL 35960		Emergency Telephone 256-927-8823
Chemical Name and Synonyms CELLULOSE, LIGNIN, HEMICELLULOSE	Cas No. Un. No.	
Trade Name GoundControl Hydromulch HyC1, HyC2, HyC3		
and Synonyms STRAW AND COTTON FIBER (STAPLE OR LINT, LINTERS, AND GIN BY-PRODUCT FIBERS)		
Chemical Family CELLULOSE	Formula	NATURAL POLYMER OF CELLULOSE
Shipping Name: DOT: NOT RESTRICTED ARTICLE	IATA: NOT RESTRICTED ARTICLE	
Date Prepared: 7/9/2010		

Section II HAZARDOUS INGREDIENTS

Material or Component	Cas No. Un No.	%	Hazard Data
Green Dye	18015-76-4	< 1%	
Proprietary Blend - Trade Secret		< or =10%	Eye Irritant

Section 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) 5-7
	pH at

Section IV FIRE AND EXPLOSION DATA

Flash Point NOT APPLICABLE	Auto Ignition Temperature *550 °F	Flammable Limits in Air, % by Vol.	Higher Not	Lower 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

Section 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. ALLERGIES AND DERMATITIS MAY BE AGGRAVATED BY EXPOSURE.		
Chronic Overexposure	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		

Section 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

Section 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
SPILLED MATERIAL BECOMES VERY SLIPPERY WITH WATER CONTACT, EXERCISE CAUTION

Neutralizing Chemicals

NOT APPLICABLE

Waste Disposal Method of Spill or Leak

SOLID WASTE DISPOSAL: COMPOST OR INCINERATE

Section VIII SPECIAL PROTECTION INFORMATION

Ventilation Requirements

NONE

Specific Personal Protective Equipment

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.

Section IX SPECIAL PRECAUTIONS

Labeling Information and Warnings

NONE (NOT RESTRICTED ARTICLE)

Data for Hazards Information Label

Hazard Code Flammability

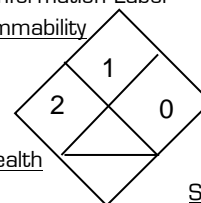
4= Extreme

3= High

2= Moderate

1= Slight

0= Insignificant

Reactivity

Other Handling and Storage Requirements

TO AVOID MICROBIOLOGICAL DAMAGE TO FIBER, AVOID PROLONGED STORAGE IN DAMP OR WET
CONDITION**Section X DISPOSAL**

Waste Disposal Method

SOLID WASTE DISPOSAL
COMPOST, OR INCINERATE

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

Section XI GOVERNMENT REGULATIONS

Reference to Applicable

Government Regulations

Federal

CFR 1910.1043

CFR 1910.1000

TABLE Z-1

Regulation Highlights

COTTON FIBER IS EXEMPTED BY CFR 1910.1043 (A) (2)

Material Specification



High-Performance Straw & Cotton Plant Material Hydromulch

Description:

East Coast’s Ground Control HY-C3 High Performance BFM Hydromulch is an extended-term hydraulically applied slurry composed of a patent-pending blend of mechanically processed straw fibers, reclaimed cotton plant materials, and proprietary-performance enhancing tackifiers. HY-C3 Hydromulch creates a flexible uniform protective layer that prevents raindrop splash erosion, absorbs rainfall and releases the moisture to provide optimal conditions for seed germination and rapid vegetative establishment. HY-C3 is suitable for establishing vegetation on 1:1 or flatter slopes with an estimated functional longevity of 6 months.

Composition:

Mechanically Processed Straw: 70% ± 3%
 Mechanically Processed Reclaimed Cotton Plant Material : 20% ± 3%
 Proprietary Blend of Tackifiers, Activators and Additives: 10% ± 1%

Packaging:

Bag Size: 17" x 9" x 26" (42cm x 23cm x 66cm)
 Bag Weight: 50 lbs (22.7 kg) ± 3%
 Pallet: 40 bags
 Full Truck: 880 bags
 Packaging: UV and weather resistance bag. Pallets are shrink-wrapped in plastic with cover

Specifications:

Content: Straw/Reclaimed Cotton Plant Materials
 Total Organic Matter: 90.0%
 Carbon to Nitrogen Ratio: 38 : 1
 Moisture Content: 12% ± 3%
 Color: Natural Green
 pH (% wet basis) 6.6
 Mass Per Unit Area 13. oz/yd² ASTM D6566*
 Thickness .195 inch ASTM D6525*
 Light Penetration 98% ASTM D6567*
 C-Factor .003** ASTM D6459**

Application Rate:

Slope Conditions	Rate (English)	Rate (SI)
≤4:1	2,500 lbs/acre	2,800 kg/ha
≥4:1 < 3:1	3,000 lbs/acre	3,400 kg/ha
≥3:1 < 2:1	3,500 lbs/acre	3,900 kg/ha
≥2:1 < 1:1	4,000 lbs/acre	4,500 kg/ha
1:1	4,500 lbs/acre	5,000 kg/ha

*Modified Test Process

**Large-Scale Results obtained by 3rd Party GAI Accredited Independent Laboratory

Mixing and Application:

First fill tank of a mechanically agitated hydroseeding machine with sufficient water to suspend seed and fertilizers. Next add all soil amendments (seed, fertilizer, etc). Continue adding water slowly while adding the East Coast HY-C3 Mulch at a steady rate. Consult application and loading charts to determine the proper application rates. Mix at a rate of 50 lbs of East Coast HY-C3 Mulch per 100 gallons of water. Confirm loading rates with equipment manufacturer. All mulch should be loaded when the tank is approximately ¾ full. Agitate for a minimum of ten minutes after adding the last amount of the mulch. For machines equipped with variable speed agitation, bring agitator to a slow roll before pumping while keeping engine RPMs high. Next apply in a uniform layer from two opposing directions to ensure complete soil coverage. Irregular surfaces may need slightly higher application rates to obtain adequate coverage. Apply over properly prepared seedbed.

Do not apply in channels, swales, or areas of concentrated flow

Another Product From:

