



# MATERIAL SAFETY DATA SHEET

Effective March 16, 2010

Supersedes March 30, 2007



## Section 1 – Chemical Product and Company Information

<b>PRODUCT IDENTIFIER:</b>	Hydraulic Seeding Mulch	<b>PRODUCT NAME:</b>	<b>Fibramulch™</b>
<b>Synonyms:</b>	Hydroseeding mulch, cellulose mulch	<b>MANUFACTURER:</b>	Can-Cell Industries Inc.
<b>Description:</b>	treated wood/paper fibres with colorant		14735-124 Avenue
<b>Product Type:</b>	standard mulch		Edmonton, Alberta, T5L 3B2
	(National Master Specification 02922)	<b>Emergency Phone:</b>	1-800-661-5031

## Section 2 – Composition / Information on Ingredients

<u>Component</u>	<u>CAS Number</u>	<u>Percent by Weight</u>	<u>Exposure Limits</u>
Cellulose fibres (recycled paperstock and wood fibre)	#65996-61-4	Not more than 85%	PEL/TWA = 15 mg/m <sup>3</sup> total dust (PNOC) PEL/TWA = 5 mg/m <sup>3</sup> respirable fraction TLV/TWA = 10 mg/m <sup>3</sup> inhalable (PNOC) TLV/TWA = 3 mg/m <sup>3</sup> respirable fraction
Triphenylmethane dyes mixture (CI Basic Green 4 in a mixture)	#41272-40-6	Not more than 0.5 %	not established (integrated within fibres)
Ethoxylated nonylphenol (Non-ionic surfactant)	#9016-45-9	Not more than 0.5 %	not established (integrated within fibres)
Moisture (water)	-----	Not more than 15%	N / A

## Section 3 – Hazard Identification

### Emergency Overview

Avoid contact with extreme heat sources and open flame – may emit carbon monoxide and other toxic decomposition products when burned. Fibramulch™ does not present any unusual hazard if involved in a fire.

### Potential Health Effects

Inhalation is the most significant route of exposure in occupational and other settings. Mild irritation of the respiratory tract is possible – respiratory protection is recommended during hydroseeder loading or other handling of the dry product. Once within the hydroseeding slurry, Fibramulch™ no longer presents any inhalation hazard.

Fibramulch™ is non-irritating to eyes and skin under normal industrial conditions. Even though it exhibits low acute toxicity, Fibramulch™ is not intended for consumption. Ingestion of a small amount is not likely to cause harm – larger quantities may cause gastrointestinal symptoms.

Fibramulch™ is not considered a carcinogen by any authority.

## Section 4 – First Aid Measures

**Inhalation:** If irritation occurs, remove person to fresh air. Respiratory protection is recommended when handling dry product.

**Skin Contact:** Fibramulch™ is non-irritating. Wash with soap and water after handling.

**Eye Contact:** For severe dust exposure, flush eyes with warm water for a minimum of 15 minutes. If irritation persists for more than 30 minutes, seek medical attention.

**Ingestion:** Although ingestion of significant amounts is unlikely, gastrointestinal symptoms could occur. In such cases, give two glasses of water and seek medical attention.

Note to Physicians: Severe exposure to dust may produce symptoms in sensitive persons or those with pre-existing respiratory conditions.

## Section 5 – Fire-Fighting Measures

Thermal decomposition (smouldering combustion) can occur when dry product is in prolonged contact with extreme temperatures and/or open flame. Fibramulch™ is not fire resistant.

<b>Suitable Extinguishing Media:</b>	Any available media (Type A fire condition)
<b>Unsuitable Extinguishing Media:</b>	None
<b>Special Hazards in Fire:</b>	None
<b>Required special PPE for Fire Fighters:</b>	Standard protective equipment





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## Section 6 – Accidental Release Measures

**Personal Precautions:** Nuisance dust.

**Environmental Precautions:** Fibramulch™ is biodegradable and will not cause damage to vegetation via root absorption. Fibramulch™ will not cause localized contamination of surrounding waters and poses no known hazard to fish or other aquatic life.

**Methods for Cleaning:** Sweep, shovel and/or vacuum up Fibramulch™ and place in containers for disposal in accordance with applicable regulations.

## Section 7 – Handling & Storage

**Handling:** No special handling is required. Handling on a “first in, first out” basis is recommended to maintain package integrity.

**Storage:** Covered outdoor storage is recommended (ambient temperature and pressure).

## Section 8 – Exposure Controls / Personal Protection

**Engineering Measures:** No specific controls needed. Use good housekeeping practices to minimize spills and accumulations.

**Control Parameters:** Nuisance dust. (dry product only)

**Personal Protective Equipment:** Use NIOSH-approved N95 particle mask (e.g. 3M 8210) when dust levels exceed exposure limits.

**Eye Protection:** Generally not required.

**Hand Protection:** Generally not required.

**Hygiene Measures:** Standard hygienic practices are recommended.

## Section 9 – Physical and Chemical Properties

<b>Physical State:</b>	Solid	<b>Vapour Pressure:</b>	N/A
<b>Appearance and Odour:</b>	Green fibrous mass, low odour	<b>Vapour Density:</b>	N/A
<b>Odour Threshold:</b>	N/A	<b>Evaporation Rate:</b>	N/A
<b>Specific Gravity:</b>	<1	<b>pH:</b>	7.0 ± 0.5
<b>Boiling Point:</b>	N/A	<b>Coefficient of water / oil Distribution:</b>	Not established
<b>Melting/Freezing Point:</b>	N/A		
<b>Water Solubility:</b>	insoluble, dispersible		

## Section 10 – Stability and Reactivity

<b>Stability of Product:</b>	Fibramulch™ is a stable product.
<b>Conditions / Materials to Avoid:</b>	Contact with extreme heat or open flame.
<b>Hazardous Decomposition Products:</b>	None.
<b>Hazardous Polymerization:</b>	Will not occur.

## Section 11 – Toxicology Information

**Acute toxicity:** Fibramulch™ is considered to exhibit relatively low acute toxicity.

**Local effects:** Fibramulch™ is non-irritating to eyes and intact skin under normal industrial conditions. Although Fibramulch™ is not intended for consumption, ingestion of a small amount is not likely to cause harm – larger quantities could cause gastrointestinal symptoms.

Fibramulch™ is not considered a carcinogen by any authority.

## Section 12 – Ecological Information

**Ecotoxicity:** Considering the intended use and function of this product, no environmental hazards are expected. Fibramulch™ is not damaging to vegetation or animal life. Although Fibramulch™ is not expected to pose any specific hazard to aquatic life, disposal of large quantities in bodies of water is not recommended.

**Environmental Fate:** Fibramulch™ is fully biodegradable. No negative effects are anticipated.

## Section 13 – Disposal Considerations

Fibramulch™ may be disposed of as a non-hazardous waste in accordance with applicable regulations. Tonnage quantities of product are not recommended for landfills – such product should be reused in an appropriate application.





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## Section 14 – Transport Information

*Fibramulch™ is not classified as a hazardous material for transport.*

## Section 15 – Regulatory Information

*Fibramulch™ has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by the Controlled Products Regulations.*

## Section 16 – Other Information

*Information presented herein has been compiled from sources considered dependable and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or any product in violation of any patent or in violation of any law or regulation. The user is responsible to determine the suitability of any material for a specific purpose and adopt necessary safety precautions. We make no warranty as to results to be obtained in using any material and, since conditions or use are not under our control, we must necessarily disclaim all liability with respect to use of any material supplied by us.*

### Sources of Key Data Used to Compile MSDS:

American Conference of Government Industrial Hygienists ([www.acgih.org](http://www.acgih.org))  
- Guide to Occupational Exposure Values, TLVs and other Occupational Exposure Values  
Canadian Centre for Occupational Health and Safety ([www.ccohs.ca](http://www.ccohs.ca)) - Hazardous Substances Data Bank  
Health Canada, WHMIS website / Product Safety Bureau  
National Institute of Occupational Safety and Health ([www.niosh.org](http://www.niosh.org)) – Registry of Toxic Effects of Chemical Substances  
US Environmental Protection Agency, website – Integrated Risk Information  
US Public Health Service, Agency for Toxic Substances and Disease Registry – Toxicological Profiles

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