

MATERIAL SAFETY DATA SHEET **Enviro-Mix** Wood/Paper Blended Fiber Hydraulic Mulch MSDS #52-010-001

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Enviro Gold Wood Fiber Hydraulic Mulch 52111001v1	
SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION	
	Southwest Environment Services Inc 2400 East Erwin Tyler, Texas 75702 Product Safety: 1 (903) 531-2211 www.southwestenvironment.com Version Date: June 31, 2008 Version: 2
PRODUCT(S)	Enviro-Mix Wood/Paper Blended Fiber Hydraulic Mulch
CHEMICAL FAMILY / GENERAL CATEGORY	Erosion Control
SYNONYMS	Wood/Paper mulch
SECTION 2 HAZARD IDENTIFICATION	
EMERGENCY OVERVIEW: ΔWARNING! This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.	
POTENTIAL HEALTH EFFECTS (See Section 11 for more information)	
ACUTE :	
Inhalation	Exposure to dust generated during the handling or use of the product may irritate eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.
Eyes	Dust can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
Skin	None known.
Ingestion	None known.
CHRONIC:	
Inhalation	Wood dust, depending on species, may cause respiratory sensitization. IARC classifies wood dust as a carcinogens to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.
Eyes	None known.
Skin	Wood dust, depending on species, may cause irritation and/or dermatitis on prolonged, repetitive contact.
Ingestion	None known.
TARGET ORGANS: Eyes, skin and respiratory system.	

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PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.				
CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.				
MATERIAL	IARC	NTP	ACGIH	CAL- 65
Wood Fiber 1 Not Listed A1 Not Listed				
IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen				
NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens				
ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen				
CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”				
POTENTIAL ENVIRONMENTAL EFFECTS: This product has no known adverse effect on ecology. (See Section 12 for more information.)				
SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS				
MATERIAL WT%			CAS #	
Wood Fiber 70			Not Available	
Paper Fiber 30			Not Available	
All ingredients of this product are included in the U.S. Environmental Protection Agency’s Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).				
SECTION 4 FIRST AID MEASURES				
FIRST AID PROCEDURES				
Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.			
Eyes	In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.			
Skin	Wash with mild soap and water. If irritation persists, consult physician.			
Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.			
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.				

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NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

**SECTION 5
 FIRE FIGHTING MEASURES**

General Fire Hazards		Wood dust can be a severe explosion hazard if in contact with an ignition source. Wood dust may ignite at temperatures above 200°C/395°F.	
Extinguishing Media		Water or use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures		Wear appropriate personal protective equipment. See section 8.	
Unusual Fire/ Explosion Hazards		None known	
Hazardous Combustion Products		Organic material can produce oxides of carbon.	
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)		Not Determined	
Lower Flammable Limit (LFL)	Not Determined	Rate of Burning	Not Applicable

**SECTION 6
 ACCIDENTAL RELEASE MEASURES**

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

**SECTION 7
 HANDLING AND STORAGE**

HANDLING: Avoid dust contact with eyes. Wear the appropriate eye protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10).

**SECTION 8
 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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MATERIAL WT%	TLV (mg/m ³)	PEL(mg/m ³)	
Wood Fiber 100		0.5 5 (T) / 5 (R)	
(T)–Total; (R)–Respirable; (NE)–Not Established; (C)–Ceiling; (STEL)–Short-term exposure limit (F)–Fume; (Du)–Dust; (M)–Mist ppm–part per million; f/cc–fiber per cubic centimeter; mppcf–million particles per cubic foot			
ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.			
RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.			
OTHER PERSONAL PROTECTIVE EQUIPMENT:			
Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.		
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.		
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.		
SECTION 9			
PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	Color varies tan to black based on wood type	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H₂O = 1)	Not Determined
Odor Threshold	Not Determined	Solubility in water (g/100g)	Insoluble
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 ° C	Not Applicable	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	Not Determined
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Not Applicable
Flash Point	Not Determined	Bulk Density	Not Determined
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Not Determined
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Zero
Vapor Pressure (mm Hg)		Not Applicable	

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SECTION 10 CHEMICAL STABILITY AND REACTIVITY	
STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Thermal-oxidative degradation of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.
SECTION 11 TOXICOLOGICAL INFORMATION	
ACUTE EFFECTS: None known.	
CHRONIC EFFECTS / CARCINOGENICITY: Wood dust, depending on species, may cause dermatitis on prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.	
SECTION 12 ECOLOGICAL INFORMATION	
ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology.	
Ecotoxicity value	Not determined.
SECTION 13 DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.	

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SECTION 14						
TRANSPORT INFORMATION						
U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.						
Shipping Name	Same as product name.					
Hazard Class	Not classified.					
UN/NA #	None. Not classified.					
Packing Group	None.					
Label (s) Required	Not applicable.					
GGVSec/MDG-Code	Not classified.					
ICAO/IATA-DGR	Not applicable.					
RID/ADR	None.					
ADNR	None.					
SECTION 15						
REGULATORY INFORMATION						
UNITED STATES REGULATIONS						
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.						
MATERIAL WT%	302	304	313	CERCLA	CAA Sec. 112	RCRA Code
Wood Fiber 100						NL NL NL NL NL NL
Key : NL = Not Listed						
SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)						
SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)						
SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313						
CERCLA Hazardous Substances: Reportable Quantity (RQ)						
CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)						
RCRA Hazardous Waste: RCRA hazardous waste code						
CANADIAN REGULATIONS						
This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).						
MATERIAL WT%	IDL Item #	WHMIS Classification				
Wood Fiber 100		Not Listed Not Listed				
IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #						
WHMIS Classification: Workplace Hazardous Material Information System						
Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)						
R-Phrase(s): None known.						
S-Phrase(s): S51 S38 S39 S2						

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SECTION 16 OTHER INFORMATION				
Label Information				
<p>Δ WARNING! Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Avoid irritation by reducing exposure to dust. Wood dust, depending on species, may cause respiratory sensitization. IARC classifies certain types of wood fiber as a carcinogens to humans (Group 1). Use in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Wash with soap and water after use. Do not ingest. If ingested, call physician. Product safety information: 800-507-8899 or usg.com. KEEP OUT OF REACH OF CHILDREN.</p>				
INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS				
0	* 1	0 = Minimal Hazard		
1 0	0			
	0			
	E			
NFPA Ratings:			HIMS Ratings:	1 = Slight Hazard
Health:	1	Health:	1	2 = Moderate Hazard
Fire:	0	Fire:	0	3 = Serious Hazard
Reactivity:	0	Reactivity:	0	4 = Severe Hazard
E – Safety glasses, gloves and dust respirator				
Key/Legend				
TLV	Threshold Limit Value			
PEL	Permissible Exposure Limit			
CAS	Chemical Abstracts Service (Registry Number)			
NIOSH	National Institute for Occupational Safety and Health			
MSHA	Mine Safety and Health Administration			
OSHA	Occupational Health and Safety Administration			
ACGIH	American Conference of Governmental Industrial Hygienists			
IARC	International Agency for Research on Cancer			
DOT	United States Department of Transportation			

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EPA	United States Environmental Protection Agency
NFPA	National Fire Protection Association
HMIS	Hazardous Materials Identification System
PPE	Personal Protection Equipment
TSCA	Toxic Substances Control Act
DSL	Canadian Domestic Substances List

NDSL	Canadian Non-Domestic Substances List
SARA	Superfund Amendments and Reauthorization Act of 1986
CAA	Clean Air Act
EPCRA	Emergency Planning & Community Right-to-know Act
RCRA	Resource Conservation and Recovery Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
UN/NA#	United Nations/North America number
CFR	Code of Federal Regulations
WHMIS	Workplace Hazardous Material Information System

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The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

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