

# MATERIAL SAFETY DATA SHEET Enviro-Gold Wood Fiber Hydraulic Mulch MSDS #52-010-001 Page 1 of 8

Enviro Gold Wood Fiber Hydraulic Mulch 52111001v1	
<b>SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION</b>	
	Southwest Environment Services Inc 2400 East Erwin Tyler, Texas 75702 Product Safety: 1 (903) 531-2211 <a href="http://www.southwestenvironment.com">www.southwestenvironment.com</a> Version Date: June 31, 2008 Version: 1
<b>PRODUCT(S)</b>	Enviro-Gold Wood Fiber Hydraulic Mulch
<b>CHEMICAL FAMILY / GENERAL CATEGORY</b>	Erosion Control
<b>SYNONYMS</b>	Wood mulch
<b>SECTION 2 HAZARD IDENTIFICATION</b>	
<b>EMERGENCY OVERVIEW:</b> <b>ΔWARNING!</b> 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.	
<b>POTENTIAL HEALTH EFFECTS</b> (See Section 11 for more information)	
<b>ACUTE :</b>	
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.
<b>CHRONIC:</b>	
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.
<b>TARGET ORGANS:</b> Eyes, skin and respiratory system.	

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<b>PRIMARY ROUTES OF ENTRY:</b> Inhalation, eyes and skin contact.				
<b>CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S)</b> 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.				
<b>MATERIAL</b>	<b>IARC</b>	<b>NTP</b>	<b>ACGIH</b>	<b>CAL- 65</b>
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”				
<b>POTENTIAL ENVIRONMENTAL EFFECTS:</b> This product has no known adverse effect on ecology. (See Section 12 for more information.)				
<b>SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS</b>				
<b>MATERIAL WT%</b>			<b>CAS #</b>	
Wood Fiber 100			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).				
<b>SECTION 4 FIRST AID MEASURES</b>				
<b>FIRST AID PROCEDURES</b>				
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.			
<b>MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:</b> 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

<b>General Fire Hazards</b>		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.	
<b>Extinguishing Media</b>		Water or use extinguishing media appropriate for surrounding fire.	
<b>Special Fire Fighting Procedures</b>		Wear appropriate personal protective equipment. See section 8.	
<b>Unusual Fire/ Explosion Hazards</b>		None known	
<b>Hazardous Combustion Products</b>		Organic material can produce oxides of carbon.	
<b>Flash Point</b>	Not Determined	<b>Auto Ignition</b>	Not Applicable
<b>Method Used</b>	Not Applicable	<b>Flammability Classification</b>	Not Applicable
<b>Upper Flammable Limit (UFL)</b>		Not Determined	
<b>Lower Flammable Limit (LFL)</b>	Not Determined	<b>Rate of Burning</b>	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 <sup>3</sup> )	PEL (mg/m <sup>3</sup> )	
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			
<b>ENGINEERING CONTROLS:</b> 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.			
<b>RESPIRATORY PROTECTION:</b> 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.			
<b>OTHER PERSONAL PROTECTIVE EQUIPMENT:</b>			
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.		
<b>SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance</b>	Color varies tan to black based on wood type	<b>Vapor Density (Air = 1)</b>	Not Applicable
<b>Odor</b>	Low to no odor	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Not Determined
<b>Odor Threshold</b>	Not Determined	<b>Solubility in water (g/100g)</b>	Insoluble
<b>Physical State</b>	Solid	<b>Partition Coefficient</b>	Not Applicable
<b>pH @ 25 ° C</b>	Not Applicable	<b>Auto-ignition Temp</b>	Not Determined
<b>Melting Point</b>	Not Applicable	<b>Decomposition Temp</b>	Not Determined
<b>Freezing Point</b>	Not Applicable	<b>Viscosity</b>	Not Applicable
<b>Boiling Point</b>	Not Applicable	<b>Particle Size</b>	Not Applicable
<b>Flash Point</b>	Not Determined	<b>Bulk Density</b>	Not Determined
<b>Evaporation Rate (BuAc = 1)</b>	Not Applicable	<b>Molecular Weight</b>	Mixture
<b>Upper Flammable Limit (UFL)</b>	Not Determined	<b>VOC Content</b>	Not Determined
<b>Lower Flammable Limit (LFL)</b>	Not Determined	<b>Percent Volatile</b>	Zero
<b>Vapor Pressure (mm Hg)</b>		Not Applicable	

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<b>SECTION 10 CHEMICAL STABILITY AND REACTIVITY</b>	
<b>STABILITY</b>	Stable.
<b>CONDITIONS TO AVOID</b>	Contact with incompatibles (see below).
<b>INCOMPATIBILITY</b>	None known.
<b>HAZARDOUS POLYMERIZATION</b>	None known.
<b>HAZARDOUS DECOMPOSITION</b>	Thermal-oxidative degradation of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.
<b>SECTION 11 TOXICOLOGICAL INFORMATION</b>	
<b>ACUTE EFFECTS:</b> None known.	
<b>CHRONIC EFFECTS / CARCINOGENICITY:</b> 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.	
<b>SECTION 12 ECOLOGICAL INFORMATION</b>	
<b>ENVIRONMENTAL TOXICITY:</b> This product has no known adverse effect on ecology.	
<b>Ecotoxicity value</b>	Not determined.
<b>SECTION 13 DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL METHOD:</b> 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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<b>SECTION 14</b>						
<b>TRANSPORT INFORMATION</b>						
<b>U.S. DOT INFORMATION:</b> Not a hazardous material per DOT shipping requirements. Not classified or regulated.						
<b>Shipping Name</b>	Same as product name.					
<b>Hazard Class</b>	Not classified.					
<b>UN/NA #</b>	None. Not classified.					
<b>Packing Group</b>	None.					
<b>Label (s) Required</b>	Not applicable.					
<b>GGVSec/MDG-Code</b>	Not classified.					
<b>ICAO/IATA-DGR</b>	Not applicable.					
<b>RID/ADR</b>	None.					
<b>ADNR</b>	None.					
<b>SECTION 15</b>						
<b>REGULATORY INFORMATION</b>						
<b>UNITED STATES REGULATIONS</b>						
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.						
<b>MATERIAL WT%</b>	<b>302</b>	<b>304</b>	<b>313</b>	<b>CERCLA</b>	<b>CAA Sec. 112</b>	<b>RCRA Code</b>
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						
<b>CANADIAN REGULATIONS</b>						
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).						
<b>MATERIAL WT%</b>	<b>IDL Item #</b>		<b>WHMIS Classification</b>			
Wood Fiber 100			Not Listed Not Listed			
IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #						
WHMIS Classification: Workplace Hazardous Material Information System						
<b>Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)</b>						
R-Phrase(s): None known.						
S-Phrase(s): S51 S38 S39 S2						

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<b>SECTION 16 OTHER INFORMATION</b>				
<b>Label Information</b>				
<p><b>Δ WARNING!</b>            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.  <b>KEEP OUT OF REACH OF CHILDREN.</b></p>				
<b>INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS</b>				
<b>0 1 0</b>	<b>* 1 0 0 E</b>	0 = Minimal Hazard		
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				
<b>Key/Legend</b>				
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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**END**