

MATERIAL SAFETY DATA SHEET

page 1 of 2, MICROSTRAND™ Wheat Composite MSDS Rev.11-1-2005

I. PRODUCT IDENTIFICATION

Trade Name: MICROSTRAND™ Wheat Composite

Manufacturer: Environ Biocomposites Mfg, LLC Phone: 507-388-3434
221 Mohr Drive Emergency: 507-388-3434
Mankato, MN 56001

Product Class: Agricultural fiber-based particleboard

Formula: Composite

Description: MICROSTRAND™ is an engineered composite panel made of natural fibers with gold fiber appearance and has no urea-formaldehyde added during the manufacturing process.

II. PRODUCT INGREDIENTS

<u>Principal Components:</u>	<u>% by Weight</u>	<u>Exposure Limits</u>
Wheat Straw (Rapidly renewable & Recycled post industrial)	>94	None
Polymeric Diphenylmethane Diisocyanate (MDI)	<6	None

III. PHYSICAL/CHEMICAL DATA

Percent moisture	5 - 7% as shipped in board stock
Density	35-45
Percent volatile (by volume)	-1.00
pH (1g/1L of distilled water)	7 - 7.5
Melting/boiling point	Not applicable
Vapor pressure	Not applicable
Solubility in Water	<0.2%
Appearance	Light Brown in color with slight wheat straw scent

IV. FIRE AND EXPLOSION DATA

Flash Ignition	335 Degrees Celsius
Flammable Limits	N/A
Smoke Developed Index	80
Extinguishing Media	Water, Carbon Dioxide, Sand Foam
Fire Fighting Protective Equipment	SCBA, Full protective clothing
Unusual Fire or Explosion Hazard	Fine airborne panel dust may explode in contact with ignition source.
Fire Fighting Procedures	Use water to wet panel and any dust to prevent ignition.
Auton Ignition	401 Degrees Celsius
Flamespread Index	95
Hazardous Combustion Products	Carbon monoxide, nitrous oxides, trace HCN, sulfur dioxide.

V. REACTIVITY DATA

Stability Product is stable. Open flames should be avoided.
Hazardous decomposition products See combustion products.

VI. HEALTH HAZARDS

Exposure signs and symptoms Acute overexposure to panel dust may be a mechanical irritant to the eyes. Upper respiratory symptoms may include rhinorrhea, dry cough, wheezing, sinusitis.
Potential Health Effects Prolonged or repeated contact to panel dust may aggravate preexisting medical conditions, such as asthma or chronic bronchitis.

VII. SAFE HANDLING AND STORAGE

Handling Measures There are no unusual hazards associated with the handling of this product.
Storage Requirements Store in a cool, dry place.
Conditions to Avoid Store away from flames or open ignition sources.
Waste Disposal Methods Incinerate or landfill in accordance with local, state, and federal regulations.
Respiratory Protection NIOSH/MSHA approved dust respirator should be used under dusty conditions.
Hand Protection Leather or canvas gloves.
Eye Protection Safety glasses.
Ventilation Local Exhaust; panel dust should be controlled at source.
Do not allow dust to accumulate.

IX. ADDITIONAL INFORMATION

For further technical information, contact:

Environ Biocomposites Mfg, LLC
221 Mohr Drive
Mankato, MN 56001
507-388-3434 or 800-324-8187, Fax: 507-388-3159