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## MATERIAL SAFETY DATA SHEET

### SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: WheatBoard\*

PRODUCT DESCRIPTION: Wheat straw furnish with MDI resin

\*WheatBoard is a registered trademark of PrimeBoard, Inc.

HMIS RATINGS:  
 Health Hazard 0 MINIMAL  
 Flammability Hazard 1 SLIGHT  
 Reactivity Hazard 0 MINIMAL

**WHEATBOARD IS A PRESSBOARD PRODUCT WHICH DOES NOT CONTAIN UREA FORMALDEHYDE**

### SECTION 2: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

PRINCIPAL COMPONENTS:	% W/W	ACGIH TLV	CAS NO.
Wheat Straw	>94	not listed	not applicable
Polymeric Diphenylmethane Diisocyanate (MDI)	< 6	not listed	9016-87-9
Wax Emulsion	< .2	not listed	not applicable

### SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	N/A	SPECIFIC GRAVITY:(H <sub>2</sub> O=1)	~1.0
VAPOR PRESSURE:	N/A	PERCENT VOLATILE:(by volume)	0
VAPOR DENSITY:(Air=1)	N/A	EVAPORATION RATE:(Butyl Acetate=1)	0
SOLUBILITY IN WATER:	<0.2%		
APPEARANCE AND ODOR:	Light brown panel with slight aromatic wheat straw odor		

### SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH IGNITION:	335° C	AUTO IGNITION:	401° C
FLAMMABLE LIMITS:(Upper and Lower)	N/A	FLAMESPREAD INDEX:	95
SMOKE DEVELOPED INDEX:	80		
EXTINGUISHING MEDIA:	Water, CO <sub>2</sub> , Sand Foam		
FIRE FIGHTING PROTECTIVE EQUIPMENT:	SCBA, Full protective clothing		
FIRE FIGHTING PROCEDURES:	Use water spray to wet down panels and any dust to prevent ignition.		
UNUSUAL FIRE OR EXPLOSION HAZARD:	Fine panel dust in airborne concentration of >40 gms/m <sup>3</sup> may explode in contact with ignition source.		
HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide, nitrous oxides, and trace HCN, sulfur dioxide.		

### SECTION 5: REACTIVITY DATA

STABILITY: Product is stable. Open flames should be avoided.  
 HAZARDOUS DECOMPOSITION PRODUCTS: See combustion products.

**SECTION 6: HEALTH HAZARD DATA**

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**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.

**SECTION 7: HANDLING AND STORAGE**

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**HANDLING MEASURES:** There are no unusual hazards associated with the handling of this product.

**STORAGE REQUIREMENTS:** Store in 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.

**SECTION 8: CONTROL MEASURES**

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**RESPIRATORY PROTECTION:** NIOSH/MSHA approved dust respirator should be used under dusty conditions.

**VENTILATION:** Local exhaust; panel dust should be controlled at source.

**RECOMMENDED EXPOSURE LIMITS:** Not established for straw. Grain dust level is 10 mg/m<sup>3</sup> OSHA PEL.

**EYE PROTECTION:** Safety glasses.

**HAND PROTECTION:** Leather or canvas gloves.

**OTHER PROTECTIVE CLOTHING/EQUIPMENT:** Good hygiene and housekeeping practices will minimize dust generated. Do not allow dust to accumulate. Minimize blowdown or other practices which may generate explosive levels of dust.

**OTHER PRECAUTIONS:** Due to the explosive characteristics of dust, precautions should be taken to avoid sparks or other ignition sources in the ventilation of dust. The use of enclosed or spark proof motors may be necessary if process generates excessive dust.

**SECTION 9: OTHER INFORMATION**

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**GLOSSARY:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS NO.	Chemical Abstracts Service Registry Number
gms/m <sup>3</sup>	Grams per cubic meter
HCN	Hydrogen cyanide
HMIS	Hazardous Materials Information System
mg/m <sup>3</sup>	Milligrams per cubic meter
MSHA	Mine Safety and Health Association
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Agency
PEL	OSHA Permissible Exposure Limit
% W/W	Percent weight/weight