

## 1. Product and Company Identification

**Material name** UltraStock-Free, UltraStock-MR-Free  
**Version #** 01  
**Revision date** 12-10-2010  
**Product use** Furniture, Cabinets, Construction  
**Manufacturer information** Temple-Inland  
 303 S. Temple Drive  
 Diboll, Texas 75941  
 Emergency Telephone: 936-829-5511  
 (M - F, 8AM - 5PM CST)

## 2. Hazards Identification

**Physical state** Solid.  
**Appearance** Light to dark colored solid.  
**Emergency overview** WARNING!  
  
 May form combustible dust concentrations in air (during processing). Under normal handling, the product is expected to pose low health hazards as the ingredients are firmly embedded in a wood matrix. Dusts generating from sawing, sanding, or machining of this product may pose the health hazards described in this MSDS.  
**OSHA regulatory status** This product is hazardous according to OSHA 29 CFR 1910.1200.  
**Potential health effects**  
**Eyes Skin** Direct contact with eyes may cause temporary irritation.  
**Inhalation** Wood dust: Certain species may cause allergic dermatitis to certain individuals.  
 Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation.  
**Ingestion** Expected to be a low ingestion hazard.  
**Potential environmental effects** Not expected to be harmful to aquatic organisms.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Synthetic binder	not applicable	proprietary
Wood dust (and/or ligno-cellulosic fibers)	not applicable	proprietary

**Composition comments** All concentrations are in percent by weight unless otherwise indicated.

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if symptoms persist.  
**Skin contact** Wash with soap and water. Get medical attention if symptoms occur.  
**Inhalation** If symptomatic, move to fresh air. Get medical attention if symptoms persist.  
**Ingestion** Not applicable.

## 5. Fire Fighting Measures

**Flammable properties** This product does not present a fire or explosion hazard. Sawing, drilling, sanding, or machining this product could result in the creation of wood dust and or lingo-cellulosic fibers/dust. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. According to data contained in NFPA Standards, 0.04 ounce of wood flour per cubic foot of air is the minimum explosive concentration.

## Extinguishing media

### Suitable extinguishing media

Extinguish with foam, carbon dioxide, dry powder or water fog.

### Fire fighting equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

### Hazardous combustion products

Burning of wood can produce irritating fumes and gases including carbon monoxide and carbon dioxide.

## 6. Accidental Release Measures

### Personal precautions

Wear appropriate personal protective equipment (See Section 8).

### Methods for cleaning up

Sweep or scoop up and remove. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Nonsparking tools should be used.

## 7. Handling and Storage

### Handling

Minimize dust generation and accumulation.

### Storage

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

##### Components

##### Type

##### Value

##### Form

Wood dust (and/or ligno-cellulosic fibers) (not applicable)

TWA

1 mg/m<sup>3</sup>

Inhalable fraction

#### U.S. - OSHA

##### Components

##### Type

##### Value

##### Form

Wood dust (and/or ligno-cellulosic fibers) (not applicable)

TWA

15 mg/m<sup>3</sup>  
5 mg/m<sup>3</sup>

Total dust.  
Respirable fraction.

#### Canada - Alberta

##### Components

##### Type

##### Value

##### Form

Wood dust (and/or ligno-cellulosic fibers) (not applicable)

TWA

1 mg/m<sup>3</sup>

Total dust

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

##### Components

##### Type

##### Value

##### Form

Wood dust (and/or ligno-cellulosic fibers) (not applicable)

TWA

1 mg/m<sup>3</sup>

Dust.

#### Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

##### Components

##### Type

##### Value

##### Form

Wood dust (and/or ligno-cellulosic fibers) (not applicable)

STEL

10 mg/m<sup>3</sup>

Dust.

TWA

1 mg/m<sup>3</sup>

Dust.

**Canada - Quebec**

Components	Type	Value	Form
Wood dust (and/or ligno-cellulosic fibers) (not applicable)	STEL	5 mg/m <sup>3</sup>	Total dust.

**Mexico. Occupational Exposure Limit Values**

Components	Type	Value	Form
Wood dust (and/or ligno-cellulosic fibers) (not applicable)	STEL	10 mg/m <sup>3</sup>	Dust.
	TWA	1 mg/m <sup>3</sup>	Dust.

**Exposure guidelines** Additional Occupational Exposure Limit information for Wood Dust:  
California OELs: 8hr TWA: 5 mg/m<sup>3</sup>; 15-minute STEL 10 mg/m<sup>3</sup>.  
Oregon OELs: 8hr TWA: 10 mg/m<sup>3</sup>.  
Tennessee OELs: TWA: 5 mg/m<sup>3</sup>; STEL: 10 mg/m<sup>3</sup>.

**Engineering controls** Ensure adequate ventilation, especially in confined areas. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Personal protective equipment**

**Eye / face protection** Wear safety glasses with side shields (or goggles).

**Skin protection** It is good industrial hygiene practice to minimize skin contact.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: High-efficiency particulate respirator.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Light to dark colored solid.
<b>Color</b>	Various. Dependent on wood species and time since board was manufactured and if any dye is present.
<b>Odor</b>	Various. Dependent on wood species and time since board was manufactured.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Board.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Specific gravity</b>	< 1
<b>Solubility (water)</b>	Insoluble.

<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Auto-ignition temperature</b>	425 - 475 °F (218.3 - 246.1 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Ignition sources. Minimize dust generation and accumulation.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	At elevated temperatures: Aliphatic aldehydes. Organic acids. Polycyclic aromatic hydrocarbons (PAHs).
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

<b>Acute effects</b>	The dust, which may be generated during manual or mechanical cutting, drilling, sanding, or other abrading processes and the smoke generated by heating or cutting, may cause temporary irritation of the eyes and respiratory tract. Allergic skin and lung reactions have been reported with exposure to various wood dusts due to the chemicals presented in wood and cured resin.
<b>Sensitization</b>	Depending on wood species, dust may cause skin and/or respiratory sensitization.

### ACGIH Sensitizer

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable)	Sensitizer.
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<b>Chronic effects</b>	Long-term inhalation of wood dust, above exposure limits, can cause nasal lesions, bleeding, and nasal cancer.
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<b>Carcinogenicity</b>	Due to the form of the product, exposure to the potentially carcinogenic components is not expected. Potentially carcinogenic components are typically only present in trace amounts. ACGIH classifies Oak and Beech wood dusts as category A1 (confirmed human carcinogen). Birch, mahogany, teak and walnut wood dusts are classified as category A2 (suspected human carcinogen). All other species of wood dust are classified as category A4 (not classifiable as a human carcinogen).
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### ACGIH Carcinogens

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable)	A1 Confirmed human carcinogen.
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### IARC Monographs. Overall Evaluation of Carcinogenicity

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable)	1 Carcinogenic to humans.
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### US NTP Report on Carcinogens: Known carcinogen

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable)	Known carcinogen.
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## 12. Ecological Information

<b>Ecotoxicity</b>	Not expected to be harmful to aquatic organisms.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation / Accumulation</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	No data available.
<b>Mobility in environmental media</b>	No data available.

## 13. Disposal Considerations

<b>Disposal instructions</b>	Material should be recycled if possible. Dispose of contents/container in accordance with local/regional/national/international regulations.
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## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### TDG

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.

### CERCLA (Superfund) reportable quantity (lbs)

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Drug Enforcement Agency (DEA)** Not controlled

**WHMIS status** Controlled

**WHMIS classification** D2A - Other Toxic Effects-VERY TOXIC

### WHMIS labeling



### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains chemicals known to the State of California to cause cancer.

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable) Listed.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable) Listed: December 18, 2009 Carcinogenic.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Wood dust (and/or ligno-cellulosic fibers) (CAS not applicable) Listed.

**Mexico regulations** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).  
This product is dangerous according to Mexican regulations.

**16. Other Information**

**Further information**

HMIS® is a registered trade and service mark of the NPCA.  
A HMIS® Health rating including an \* indicates a chronic hazard.

**HMIS® ratings**

Health: 1\*  
Flammability: 1  
Physical hazard: 0

**NFPA ratings**

Health: 0  
Flammability: 1  
Instability: 0

**Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Issue date**

12-10-2010