

TempleInland**MATERIAL SAFETY DATA SHEET****1 PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Temstock-Free
Synonyms: Particleboard, shelving, underlayment
Molecular Formula: Not applicable
Molecular Weight: Not applicable

Supplier: Temple-Inland Forest Products Corporation P.O. Drawer N Diboll, Texas 75941	Emergency Telephone: 936-829-5511 (Monday - Friday, 8AM - 5PM (Central Time))
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Intended Use: Particleboard

Temstock-Free is a particleboard panel that is manufactured entirely from recycled and/or recovered fibers that are bonded with a non-urea formaldehyde resin.

2 HAZARDS IDENTIFICATION

General Information: 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 particleboard may post the health hazards described in this MSDS.

Emergency Overview

Physical State: Solid (panel)
Color: Varies with formulation
Odor: Varies with formulation

WARNING!
Inhalation of dust may cause allergic respiratory reactions.
May cause allergic skin reaction.
Dust may cause eye and respiratory tract irritation.

Potential Health Effects

Health effects listed are for wood dust:

Inhalation: Dust may cause allergic respiratory reactions and respiratory tract irritation. Exposure may include coughing, asthmatic breathing, and breathlessness.

Eye Contact: Dust may cause irritation. Exposure may include eye tearing, redness and discomfort.

Skin Contact: May cause allergic skin reactions. Exposure may cause irritation, dermatitis, rash and redness.

Ingestion: Not expected to be a route of entry.

Chronic Health Effects: Cancer hazard – can cause cancer. Repeated or prolonged exposure can cause target organ damage.

Target Organ(s): Eyes, skin, nasal passages, lung

OSHA Regulatory Status: Hazardous

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
wood dust (and/or ligno-cellulosic fibers)	not applicable	> 90 %
polymerized phenol-formaldehyde resin solids*	CAS: 120712-84-7	< 9 %
wax	not applicable	< 1 %

Components not listed are not hazardous or are below reportable limits.

*The ingredients are bound together under heat and pressure. The liquid phenol formaldehyde resin used in this product contains less than 0.01ppm free or un-reacted formaldehyde. Phenol formaldehyde resin is used in face material and core material.

4 FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Eye Contact: In case of contact with dust, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Skin Contact: Wash with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention. Wash clothing before reuse.

Ingestion: Not applicable

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide or dry chemical

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: Dust may form explosive dust-air mixtures. Depending on moisture content and particle diameter, wood dust may explode in the presence of an ignition source.

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.

Spill Cleanup Methods: Not applicable for product in purchased form. Wood dust generated from sawing, sanding, or machining may be vacuumed or shoveled for recovery or disposal. Avoid generating dust.

7. HANDLING AND STORAGE

Handling: No special handling precautions are warranted for product in purchased form.

When the product is sawed, sanded, machined, or other abrading processes, wear appropriate personal protective equipment. See Section 8. Avoid breathing dust. Avoid getting dust into eyes. Avoid contact with skin and clothing. Use only with adequate ventilation.

Prevention of Fire and Explosion: Keep away from strong oxidizing agents. Minimize dust generation and accumulation. In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

Storage: Store in a cool, dry place. Keep away from ignition sources.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
wood dusts inhalable fraction	ACGIH	TWA	1 mg/m ³	Pulmonary function
wood dusts (western red cedar); inhalable fraction	ACGIH	TWA	0.5 mg/m ³	Asthma
wood dust (all hard and softwoods)	OSHA	TWA	5 mg/m ³	--
wood dust (total dust)	OSHA	TWA	15 mg/m ³	--

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne contaminants below established exposure limits.

Respiratory Protection: If engineering controls do not keep airborne concentrations below established exposure limits, wear a NIOSH-approved respiratory equipped with high efficiency particulate filter. Contact health and safety professionals for specific information.

Eye Protection: Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Hand Protection: Not applicable.

Skin Protection: Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Varies with formulation

Odor: Varies with formulation

Physical State: Solid (panel)

pH: Not applicable

Boiling Point: Not applicable

Flash Point: Not applicable

Flammability: Not applicable

Flammability Limit – Upper (%): Not applicable

Flammability Limit – Lower (%): Not applicable

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not applicable

Specific Gravity: < 1

Solubility in Water: Insoluble

Partition Coefficient (n-Octanol/water): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Dust accumulation, sources of ignition, elevated temperatures.

Incompatible Materials: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Aliphatic aldehydes, organic acids, polycyclic aromatic hydrocarbons.

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

This product has not been tested for toxicological effects in purchased form.

Specified Substances:

OSHA lethal dose for wood dust = 0.5 – 5 g/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Wood dust	Group 1 Carcinogenic to humans	Known Carcinogen	--	A4 – Not classifiable as a human carcinogen

Acute Effects: 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.

Chronic Effects: Wood dust, depending on species, may cause respiratory sensitization and/or irritation. IARC classifies wood dust as a Group 1 carcinogen to humans. Long-term inhalation of wood dust, above exposure limits, can cause nasal lesions, bleeding, asthma, or possible pulmonary abnormalities (i.e. lung and nasal cancer).

12 ECOLOGICAL INFORMATION

This product has not been tested for environmental effects.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose of waste and residues in accordance with local authority requirements. Incinerate.

Disposal Methods: No specific disposal method required.

Recycle: This panel is recyclable.

14 TRANSPORT INFORMATION

DOT: Not regulated

IATA: Not regulated

IMDG: Not regulated

15 REGULATORY INFORMATION

Inventory Status

This product or all components are listed on the following inventory: TSCA

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): None

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING: This product contains a chemical known to the State of California to cause cancer.

California Prop 65 Chemical: Formaldehyde (gas)

Pennsylvania Right-To-Know List: Wood dust

Minnesota Hazardous Substances List: Wood dust

New Jersey Right-To-Know List: None listed.

16	OTHER INFORMATION
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Hazard Ratings

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	2	1	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	2*	1	0

*- Chronic health effect; 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe

Revision Information: New

Prepared by: Temple-Inland Forest Products Corporation

Issue Date: 4/30/2007

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