

Temple-Inland**MATERIAL SAFETY DATA SHEET****1 PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Particleboard
Synonyms: TemStock-Free
Molecular Formula: Not applicable
Molecular Weight: Not applicable

Supplier:
Temple-Inland
P.O. Drawer N
Diboll, Texas 75941

Emergency Telephone:
936-829-5511 (Monday - Friday, 8AM - 5PM
(Central Time))

Intended Use: Particleboard

Particleboard is a panel manufactured from wood dust, wood fiber and ligno-cellulosic materials which are bonded together with pMDI 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.
Dust may cause eye and respiratory tract irritation.

Potential Health Effects

Health effects listed are for wood dust:

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

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

Skin Contact: Dust may cause mechanical irritation. Exposure may cause irritation, dermatitis, rash and redness.

Ingestion: Not expected to be a route of entry.

Chronic Health Effects: The NTP and IARC classify wood dust as a carcinogen. Wood dust, depending on the species, may cause allergic contact dermatitis and respiratory sensitization with prolonged, repetitive contact or exposure to elevated dust levels. Prolonged exposure (depending on the species) of wood dust has shown to be associated with nasal cancer.

Target Organ(s): Nasal passages, lung

OSHA Regulatory Status: Wood products are not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, any wood dust generated by sawing, sanding or machining this product may be hazardous.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
wood dust, wood fiber and/or ligno-cellulosic fibers	not applicable	proprietary
polymeric diphenylmethane diisocyanate (pMDI)	9016-87-9	proprietary

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

*The ingredients are bound together under heat and pressure.

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 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. Use only with adequate ventilation. Wash thoroughly after handling.

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 when machining.

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 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.

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: 425 – 475 °F

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.

Chronic Effects: Wood dust, depending on the 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
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This product has not been tested for environmental effects.

13	DISPOSAL CONSIDERATIONS
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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
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DOT: Not regulated

IATA: Not regulated

IMDG: Not regulated

15	REGULATORY INFORMATION
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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): None listed.

Pennsylvania Right-To-Know List: Wood dust (certain hardwoods and all softwoods)

Minnesota Hazardous Substances List: Wood dust (all soft and hard woods)

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	1	1	0	--

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	1*	1	0

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

Revision Information: New

Prepared by: Temple-Inland

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