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#### WOOD DUST LABEL

(For all untreated wood and untreated wood products)

#### CAUTION:

**DRILLING, SAWING, SANDING OR MACHINING WOOD PRODUCTS GENERATES WOOD DUST. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED WOOD DUST AS A NASAL CARCINOGEN IN HUMANS. THE NATIONAL TOXICOLOGY PROGRAM (NTP) CLASSIFIES WOOD DUST AS A KNOWN HUMAN CARCINOGEN. THE STATE OF CALIFORNIA HAS DETERMINED THAT INHALING WOOD DUST IS KNOWN TO CAUSE CANCER.**

**GENERATION OF WOOD DUST CAN ALSO CAUSE A FLAMMABLE OR EXPLOSIVE HAZARD.**

**WOOD DUST MAY CAUSE LUNG, UPPER RESPIRATORY TRACT, EYE AND SKIN IRRITATION. SOME WOOD SPECIES MAY CAUSE DERMATITIS AND / OR ALLERGIC RESPIRATORY EFFECTS.**

- Avoid inhaling wood dust or otherwise determine what safeguards or personal protective equipment may be necessary to prevent inhaling wood dust.
- Avoid dust contact with ignition source.
- Sweep or vacuum dust for recovery or disposal.
- Avoid dust contact with eyes and skin.
- **FIRST AID:** If inhaled, remove to fresh air. In case of contact, flush eyes and skin with water. If irritation persists, call a physician.

For additional information, see the Material Safety Data Sheet.

# Material Safety Data Sheet



## Wood Dust (Not Preservative Treated)

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Revised Date: August 30, 2006

### 1. Product Identification

**Product:** Wood Dust (Not Preservative Treated)

**Manufacturing Location(s):** Various

### 2. Hazardous Ingredients/Identity Information

Name	CAS#	Agency	Exposure Limits	Comments
Wood Dust (Not Preservative Treated)	None	OSHA	PEL-TWA 15mg/m <sup>3</sup>	Total Dust
		OSHA	PEL-TWA 5mg/m <sup>3</sup>	Respirable dust fraction
		ACGIH	TLV-TWA 0.5mg/m <sup>3</sup>	Inhalable, Western red cedar
		ACGIH	TLV-TWA 1mg/m <sup>3</sup>	Inhalable, all other species
		Recommended <sup>1</sup>	PEL-TWA 5mg/m <sup>3</sup>	Softwood or hardwood total dust
		Recommended <sup>1</sup>	PEL-STEEL 10mg/m <sup>3</sup>	Softwood or hardwood total dust
Recommended <sup>1</sup>	PEL-TWA 2.5mg/m <sup>3</sup>	Western red cedar total dust		

<sup>1</sup> In *AFL-CIO v. OSHA* 965 F. 2d 962 (11<sup>th</sup> Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA has established at that time. The 1989 PELs were: TWA 5 mg/m<sup>3</sup>; STEL (15 MIN) – 10mg/m<sup>3</sup> (all softwoods and hardwoods, except western cedar); western red cedar: TWA – 2.5 mg/m<sup>3</sup>.

Wood dust is now officially regulated as an organic dust under the Particulates Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under the Hazardous Ingredients section of this MSDS. However, a number of states have incorporated provisions of the 1989 standard in their state plans. Additionally, OSHA has announced that it may cite companies under the OSH ACT General Duty Clause under appropriate circumstances for non-compliance with the 1989 PELs.

### 3. Hazard Identification

**Physical Appearance and Odor:** Particulate solid, light to dark in color. Color and odor depend on the wood species and age of particles. Particles can be generated by any manual or mechanical cutting or abrasion process performed on wood.

**Primary Health Hazards:** The primary health hazard posed by this product is thought to be due to inhaling wood dust.

**Likely Exposure Modes:**

Ingestion:

**Skin:**

**Inhalation:**

**Eye:**

**Medical Conditions Aggravated:** Wood dust may aggravate pre-existing respiratory conditions or allergies.

### 3. Hazard Identification (cont'd.)

#### Signs and Symptoms of Exposure:

**Acute:** Wood dust may cause eye irritation. Certain species of wood dust can cause allergic contact dermatitis in sensitized individuals. If inhaled, wood dust may cause respiratory irritation, nasal dryness, coughing, sneezing, or wheezing.

**Chronic:** 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 to wood dust has been reported by some observers to be associated with nasal cancer.

#### Carcinogenicity:

x **NTP: Wood dust, Known Human Carcinogen**

x **IARC Monographs: Wood Dust, Group 1**

OSHA Regulated: Not Listed

**NTP:** Per NTP's *Tenth Report of Carcinogens*: "Wood dust is known to be a human carcinogen based on sufficient evidence of carcinogenicity from studies in humans. An association between wood dust exposure and cancer of the nose has been observed in many case reports, cohort studies, and case-control studies that specifically addressed nasal cancer. Strong and consistent associations with cancer of the nasal cavities and paranasal sinuses were observed both in studies of people whose occupations are associated with wood dust exposure and in studies that directly estimated wood dust exposure."

**IARC – Group I:** Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily based on studies showing an association between occupational exposure to wood dust and adenocarcinoma to the nasal cavities and paranasal sinuses. IARC did not find sufficient evidence of an association between occupational exposure to wood dust and cancer of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum.

#### Emergency Overview

**WARNING! MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR (DURING PROCESSING).**

### 4. First-Aid Measures

**Ingestion:** NOT APPLICABLE

**Eye Contact:** Wood dust may cause mechanical irritation. Treat dust in eye as foreign object. Flush with water to remove dust particles. Seek medical help if irritation persists.

**Skin Contact:** Wash with water to remove dust particles. Seek medical advice if a rash, persistent irritation or dermatitis occurs.

**Skin Absorption:** NOT APPLICABLE

**Inhalation:** Wood dust may cause unpleasant obstruction in the nasal passages, resulting in dryness of nose, dry cough, sneezing and headaches. Remove to fresh air. If persistent irritation, severe coughing or breathing difficulties occur, seek medical advise.

### 5. Fire and Explosion Measures

**Flash Point (Method Used):** NOT APPLICABLE

**Flammable Limits:** LFL = Wood dust: 40 grams per cubic meter of air

UFL = NOT APPLICABLE

**Extinguishing Media:** Water, Carbon Dioxide, Sand

**Autoignition Temperature:** Variable between typical values between 400°and 500°F

**Special Firefighting Procedures:** Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into air. Remove burned or wet dust to open area after fire is extinguished.

**Unusual Fire and Explosion Hazards:** Avoid generating dust; If contacted with an ignition source, fine dust dispersed in air in sufficient concentrations, may present a strong to severe explosion hazard.

**Explosive Limits in Air:** 40 grams/m<sup>3</sup> (LEL)

## 5. Fire and Explosion Measures (cont'd.)

NFPA Rating (Scale 0-4):

Health = 1

Fire = 1

Reactivity = 0

## 6. Accidental Release Measures

**Steps to be Taken in Case Material is Released or Spilled:** Sweep or vacuum spills for recovery or disposal. Avoid creating dust conditions. Place recovered wood dust in a container for proper disposal.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air)

Place recovered wood dust in a container for proper disposal.

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.

## 7. Handling and Storage

**Precautions to be Taken in Handling and Storage:** avoid ignition sources, eye contact, prolonged or repeated contact with skin, prolonged or repeated breathing of wood dust, and contact with oxidizing agents and drying oils.

Minimize dust generation and accumulation.

Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

## 8. Exposure Control Measures/Personal Protection

**Personal Protective Equipment:** Protective equipment may be needed such as gloves, goggles, or safety glasses and approved dust respirators depending upon dust conditions.

**Ventilation:** Provide adequate general and local exhaust ventilation to maintain healthful working conditions. Due to explosive potential of wood dust when suspended in air, ventilation systems should be kept clean and precautions should be taken to prevent sparks or other ignition sources.

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.

## 9. Physical and Chemical Properties

**Physical Description:** Light to dark colored, granular solid. Color and odor are dependent on the wood species and time since dust was generated.

**Boiling point (@ 760 mm Hg):** NOT APPLICABLE

**Evaporation rate (Butyl Acetate = 1):** NOT APPLICABLE

**Freezing Point:** NOT APPLICABLE

**Melting Point:** NOT APPLICABLE

**Molecular Formula:** NOT APPLICABLE

**Molecular Weight:** NOT APPLICABLE

**Oil-water Distribution Coefficient:** NOT APPLICABLE

**Odor Threshold:** NOT APPLICABLE

**pH:** NOT APPLICABLE

**Solubility in Water (% by weight):** Insoluble  
**Specific Gravity (H<sub>2</sub>O = 1):** Variable, depends on species and moisture content  
**Vapor Density (air =1; 1 atm):** NOT APPLICABLE  
**Vapor Pressure (mm Hg):** NOT APPLICABLE  
**Viscosity:** NOT APPLICABLE  
**% Volatile by Volume [@ 70°F (21°C)]:** NOT APPLICABLE

## 10. Stability and Reactivity

**Stability:** Unstable      **x Stable under normal conditions**

**Conditions to Avoid:** Avoid open flame and sparks.

**Incompatibility (Materials to Avoid):** Avoid contact with oxidizing agents and drying oils. Avoid open flame. Product may ignite at temperature in excess of 400°F.

**Hazardous Decomposition of By-Products:** Thermal oxidative degradation of wood produces irritating and toxic fumes and gases, including carbon monoxide, aldehydes and organic acids.

**Hazardous Polymerization:** NOT APPLICABLE

**Sensitivity to Mechanical Impact:** NOT APPLICABLE

**Sensitivity to Static Discharge:** NOT APPLICABLE

## 11. Toxicological Information

### Wood Dust:

Wood dust (softwood or hardwood): OSHA Hazard Rating = 3.3; moderately toxic with probable oral lethal dose to humans being 0.5-5 g/kg (about 1 pound for a 70 kg or 150 pound person). Source: *OSHA Regulated Hazardous Substances*, Government Institutes, Inc., February 1990.

Wood dust (generated from sawing, sanding or machining the product) may cause nasal dryness, irritation, coughing and sinusitis. National Toxicology Program (NTP) and The International Agency for Research on Cancer (IARC) classify wood dust as a human carcinogen (IARC Group 1). This classification is based primarily on increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with exposure to wood dust. The evaluation did not find sufficient evidence to associate cancers of the oropharynx, hypopharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust.

**Additional Toxicity Data:** See acute and chronic health effects provided in *Section 3: Hazard Identification*.

**Target Organs:** See acute and chronic health effects provided in *Section 3: Hazard Identification*.

## 12. Ecological Information

**Environmental Fate:** NOT APPLICABLE

**Environmental Toxicity:** None

## 13. Disposal Considerations

**Waste Disposal Method:** Incineration in accordance with local, state, and federal regulations is preferred because fugitive emissions can be effectively controlled. Landfill disposal in accordance with local, state, and federal regulations is acceptable if actions are taken to contain the material until it can be covered by other wastes or landfill cover materials.

## 14. Transport Information

U.S. Department of Transportation: not regulated as a hazardous material.

Canadian Transportation of Dangerous Goods (TDG): not listed as a hazardous material.

## 15. Regulatory Information

**TSCA:** This product complies with TSCA inventory requirements.

**CERCLA:** NOT APPLICABLE

**DSL:** NOT APPLICABLE

**OSHA:** Wood dust may be hazardous under the criteria of the federal OSHA Hazard Communication standard 29 CFR 191 0.1200.

**STATE RIGHT-TO-KNOW:**

Wood dust is listed on Pennsylvania's Appendix A — *Hazardous Substance Lists*

**SARA 313 Information:** None

**SARA 311/312 Hazard Category:** NOT APPLICABLE

**FDA:** NOT APPLICABLE

**WHMIS Classification:** Wood dust is not considered a controlled product.

## 16. Other Information

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.

Martco MSDS available on: <http://www.martco.com>

**User's Responsibility:** Information given here is believed to be accurate and technically correct but without guarantee. Conditions of use and suitability of the product are beyond our control and all risks of use are assumed by the user, who is also responsible for using the most up-to-date issue of this sheet.

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS#	=	Chemical Abstracts System Number
DOT	=	U. S. Department of Transportation
DSL	=	Domestic Substance List
EC50	=	Effective concentration that inhibits the endpoint to 50% of control population
EPA	=	U.S. Environmental Protection Agency
IARC	=	International Agency for Research on Cancer
IATA	=	International Air Transport Association
IMDG	=	International Maritime Dangerous Goods
LC50	=	Concentration in air resulting in death to 50% of experimental animals
LCLo	=	Lowest concentration in air resulting in death
L050	=	Administered dose resulting in death to 50% of experimental animals
LDLo	=	Lowest dose resulting in death
LEL	=	Lower Explosive Limit
LFL	=	Lower Flammable Limit
MSHA	=	Mining Safety and Health Administration
NAV	=	Not Available
NIOSH	=	National Institute for Occupational Safety and Health
NPRI	=	Canadian National Pollution Release Inventory
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
RCRA	=	Resource Conservation and Recovery Act
STEL	=	Short-Term Exposure Limit (15 minutes)
STP	=	Standard Temperature and Pressure
TCLo	=	Lowest concentration in air resulting in a toxic effect
TDG	=	Canadian Transportation of Dangerous Goods
TDLo	=	Lowest dose resulting in a toxic effect
TLV	=	Threshold Limit Value
TSCA	=	Toxic Substance Control Act
TWA	=	Time-Weighted Average (8 hours)
UFL	=	Upper Flammable Limit
WHMIS	=	Workplace Hazardous Materials Information System