



309 North Washington  
El Dorado, AR. 71730  
(870) 862-3414  
[www.anthonyforest.com](http://www.anthonyforest.com)

## WOOD DUST MATERIAL SAFETY DATA SHEET

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**TRADE NAME:** Wood Dust (Untreated)  
**SYNONYMS:** None  
**CAS. NO.:** None  
**DESCRIPTION:** Particles generated by any manual or mechanical cutting or abrasion process performed on wood.

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### PHYSICAL DATA

**Boiling Point**..... Not applicable  
**Specific Gravity**..... Variable (Depends on wood species & moisture content).  
**Vapor Density**..... Not applicable  
**% Volatiles by Volume**..... Not applicable  
**Melting Point**..... Not applicable  
**Vapor Pressure**..... Not applicable  
**Solubility in H2O (% by wt.)**..... Insoluble  
**Evaporation Rate (Butyl Acetate = 1)**..... Not applicable  
**pH**..... Not applicable  
**Appearance & Odor**..... Light to dark colored granular solid color and odor are dependent on the wood species and time since dust was generated.

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### FIRE & EXPLOSION DATA

**Flash Point**..... Not applicable  
**Auto ignition Temperature**..... Variable (typically 400-500° F)  
**Explosive Limits in Air**..... 40 grams / m3 (LEL)  
**Extinguishing Media**..... Water, CO2, Sand  
**Special Fire Fighting Procedures**..... Use water to wet down wood dust to reduce the likelihood of ignition or dispersion of dust into the air. Remove Burned or wet dust to open area after fire is extinguished.  
**Unusual Fire & Explosion Hazard**..... Wood dust is a strong to severe explosion hazard if a dust "cloud" contacts an ignition source.

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**HEALTH EFFECTS DATA**

**Exposure Limit**.....

**ACGIH TLV:** Western Red Cedar

**TWA** - 5.0 mg/ m<sup>3</sup>;

**STEL** - (15 min) - 10.0 mg/ m<sup>3</sup> (softwood)

**TWA** - 1.0 mg/ m<sup>3</sup> (certain hardwoods such as beech and oak)

**OSHA PEL: (See important footnote 1 below concerning OSHA PEL's for wood dust)**.....TWA - 15.0 mg/ m<sup>3</sup> (total dust); 5.0 mg/ m<sup>3</sup> (respirable fraction).

**Skin and Eye Contact**.....Wood dust can cause eye irritation. Various species of wood dust can elicit allergic contact dermatitis in sensitized individuals.

**Ingestion**..... Not applicable

**Skin Absorption**.....Not Known to Occur

**Inhalation**..... May cause nasal dryness, irritation and obstruction. Coughing, wheezing and sneezing; sinusitis and prolonged colds have also been reported.

**Chronic Effects**.....Wood dust, depending on species, may cause dermatitis. By prolonged, repetitive contact; may cause respiratory sensitization and/or irritation. NTP includes wood dust in the Annual Report on Carcinogens. IARC classifies wood dust a carcinogen to humans (Group 1). This classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and Para nasal sinuses associated with exposure to wood dust. IARC did not find sufficient evidence to associate hypo pharynx, lung, lymphatic and hematopoietic systems, stomach, colon or rectum with exposure to wood dust. The American Conference of Governmental Industrial Hygienists (ACGIH) has categorized wood dust (certain hardwoods) as a confirmed human carcinogen.

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1 In AFL-CIO V. OSHA 965 F. 2d 962 (11th Cir. 1992), the court overturned OSHA's 1989 Air Contaminants Rule, including the specific PELs for wood dust that OSHA had established at that time . THE 1989 PELs WERE: TWA - 5.0 mg/ m<sup>3</sup>; STEL (15 MIN.) - 10.0 mg/ m<sup>3</sup> (ALL SOFT AND HARD WOODS, EXCEPT WESTERN RED CEDAR); WESTERN RED CEDAR: TWA - 2.5 mg/ m<sup>3</sup>.

Wood dust is now officially regulated as an organic dust under the Particulate Not Otherwise Regulated (PNOR) or Inert or Nuisance Dust categories at PELs noted under Health Effects Information 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.

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## REACTIVITY DATA

**Conditions Contributing to Instability**.....Stable under normal conditions.

**Incompatibility**.....Avoid contact with oxidizing agents and drying oils. Avoid open flame. Products may ignite at temperatures in excess of 400° F.

**Hazardous Decomposition Products**.....Thermal oxidative degradation of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.

**Conditions Contributing to Polymerization**..... Not applicable

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## PRECAUTIONS & SAFE HANDLING

**Eye Contact**.....Avoid eye contact.

**Skin Contact**.....Avoid repeated or prolonged contact with skin. Careful bathing and clean clothes are indicated after exposure.

**Inhalation**.....Avoid prolonged or repeated breathing of wood dust in the air.

**Oxidizing Agents & Drying Oils**.....Avoid contact.

**Open Flame**.....Avoid.

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## GENERALLY APPLICABLE CONTROL MEASURES

**Ventilation**.....Provide adequate general and local exhaust ventilation to maintain healthful working conditions.

**Safety Equipment**.....Wear goggles or safety glasses. Other protective equipment such as gloves and approved dust respirators may be needed depending upon dust conditions.

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## EMERGENCY & FIRST AID PROCEDURES

**Eyes**.....Flush with water to remove dust particles. If irritation persists, get medical attention.

**Skin**.....If a rash or persistent irritation or dermatitis occur, get medical advice where applicable before returning to work where wood dust is present.



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**Inhalation**.....Remove to fresh air. If persistent irritation, severe coughing, or breathing difficulties occur, get medical advice before returning to work where wood dust is present.

**Ingestion**.....Not applicable.

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### **SPILL/LEAK CLEAN UP PROCEDURES**

**Recovery or Disposal**.....Sweep or vacuum spills for recovery or disposal; avoid creating dust conditions. Provide good ventilation where dust conditions may occur. Place recovered wood dust in a container for proper disposal.

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### **REGULATORY INFORMATION**

**State: California Proposition 65 Warning**.....Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer.