## WOOD DUST DATA SHEET MSDS

Manufacturer Name and AddressEffective DateSupersedes DatePrepared ByThe Penrod Company11-8-20106-1-2009M. Clausen2809 South Lynnhaven Road - Suite 350

2809 South Lynnhaven Road - Suite 3 Virginia Beach, VA 23452

TRADE NAME: Wood Dust (Untreated)

**SYNONYMS**: None

CAS. NO.: None

**<u>DESCRIPTION:</u>** Particles generated by any manual or mechanical cutting or abrasion process performed on wood.

#### PHYSICAL DATA

Boiling Point	Not applicable
Specific Gravity	Variable (Dependent on wood species and moisture content.)
Vapor Density	Not applicable
% Volatiles by Vol	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 and Odor	Light to dark colored granular solid. Color and odor are dependent on the wood species and time since dust was generated.

ATTENTION CALIFORNIA RESIDENTS – Proposition 65 Warning: The State of California (OEEHA Prop 65) has classified wood dust as a chemical known to cause cancer in humans. Wood dust can also cause a flammable or explosive hazard. Drilling, sawing, sanding, and machining wood products can produce wood dust. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. California Health and Safety Code Section 25249.6.

- Avoid dust contact with an ignition source.
- Recover dust for disposal.
- Avoid prolonged breathing of wood dust and contact with the eyes and skin.

#### FIRE AND EXPLOSION DATA

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 and Explosion Hazard...... Wood dust is a strong to severe

explosion hazard if a dust "cloud"

contacts an ignition source.

#### **HEALTH EFFECTS INFORMATION**

TWA - 5.0 mg/m3;

STEL (15 min)-10.0 mg/m3

(softwood);

TWA - 1.0 mg/m3 (certain hardwoods such as beech and

oak)

1See important footnote below

concerning OSHA PELs for wood dust..... OSHA PEL:

TWA - 15.0 mg/m3 (total dust); 5.0 mg/m3 (respirable

fraction)

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/m3; STEL (15 MIN.) - 10.0 mg/m3 (ALL SOFT AND HARD WOODS, EXCEPT WESTERN RED CEDAR): WESTERN RED CEDAR: TWA - 2.5 mg/m3.

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, <u>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.</u>

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

Coughing, wheezing and sneezing; sinusitis and prolonged colds have also

been reported.

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

Carcinogens. IARC classifies wood dust as 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 paranasal sinuses associated with

exposure to wood dust.

IARC did not find sufficient evidence to associate cancer of the

hypopharynx, lung,

lymphatic and hematopoletic 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.

#### **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

#### PRECAUTIONS AND SAFE HANDLING

Avoid eye contact.

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

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

Avoid contact with oxidizing agents and drying oils.

Avoid open flame.

#### GENERALLY APPLICABLE CONTROL MEASURES

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

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

### EMERGENCY AND FIRST AID PROCEDURES

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

# SPILL/LEAK CLEAN UP PROCEDURES

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.