

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration  
**MATERIAL SAFETY DATA SHEET**

May be used to comply with Occupational Safety and Health Administration  
OSHA's Hazard Communication Standard, (Non-Mandatory Form)  
29 CFR 1910.1200. Standard must be consulted for specific requirements.  
OMB No. 1218-0072 Form Approved

**Section I**

<u>Manufacturer's Name</u> Hughes Brothers, Inc. 210 North 13 <sup>th</sup> , Seward, NE 68434	<u>Emergency Telephone Number</u> CHEMTREC: 1-800-424-9300
<u>Chemical Name</u> Douglas Fir solid sawn, laminated or parallel strand lumber treated with Pentachlorophenol	<u>Telephone Number for Information</u> 402-643-2991, ext 224
<u>Synonyms</u> Penta Treated Wood, Pressure Treated Wood	

**Section II - Hazard Ingredients/Identity Information**

Composition Information on Ingredients

Chemical Name	CAS Number	% Range	OSHA PEL
Pentachlorophenol	87-86-5	<.01%	.5 mg/m <sup>3</sup>
Petroleum Solvent	64741-59-9	<.02%	NA
Natural Wood Fiber	NA	>99%	NA

**Section III - Physical/Chemical Characteristics**

<u>Appearance and Odor</u> Tan or Dark Brown Solid with Petroleum Odor	<u>Solubility in Water</u> Wood: Insoluble Penta: 14ppm @ 20 °C
<u>Specific Gravity (H<sub>2</sub>O = 1)</u> 0.9	<u>Evaporation Rate (Butyl Acetate = 1)</u> NA
<u>Boiling Point</u> NA <u>Vapor Density (AIR = 1)</u> NA	<u>Chemical Formula:</u> NA
<u>Vapor Pressure (mm Hg.)</u> NA	<u>Melting Point</u> NA

**Section IV - Fire and Explosion Hazard Data**

<u>Flash Point (Method Used)</u> NA	<u>Flammable Limits</u> LEL Wood Dust: 40gm/m <sup>3</sup> UEL NA
<u>Extinguishing Media:</u> Water Spray, Carbon Dioxide,	<u>Special Fire Fighting Procedures:</u> Toxic gas, carbon monoxide, carbon dioxide and ash are formed by fire or thermal

Dry Chemical and Foam. - - Halon WILL NOT Extinguish the Fire	decomposition. Firefighters should wear self-contained breathing apparatus, avoid skin contact.
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### Section V - Reactivity Data

Conditions to Avoid: Avoid contact with open flame and other sources of extreme high temperatures. Avoid contact with incompatible materials.	Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, chlorinated dibenzodioxins, dibenzofurans, and other toxic compounds will be released upon combustion of this product
Stability <b>Stable</b>	Hazardous Polymerization <b>Will not occur.</b>
Incompatibility ( <i>Materials to Avoid</i> ) This product is incompatible with strong oxidizing agents.	

## **Section VI - Health Hazard Data**

### ROUTE OF EXPOSURE

#### **INHALATION**

Wood dust can cause irritation of nose and throat.

#### **SKIN ABSORPTION**

Pentachlorophenol is known to be a skin absorbing compound.

#### **INGESTION**

Ingestion of pressure treated wood or sawdust is unlikely.

Ingestion of this product can irritate the mouth, throat, stomach.

Symptoms of ingestion may include nausea, vomiting, and irritation.

#### **EYE**

Prolonged or repeated exposure to wood dust can cause pain and irritation of eyes.

### HEALTH HAZARDS

**ACUTE:** Irritation of contaminated tissues. Mainly skin and eyes.

**CHRONIC:** The symptoms of long-term exposure would be similar to those for acute exposure, described above. Wood dusts can aggravate allergies.

### EMERGENCY AND FIRST AID PROCEDURES

#### **INHALATION**

Move victim to fresh air. If breathing has stopped, administer CPR. Call a physician.

#### **SKIN**

Remove contaminated clothing and shoes. Wash effected area with soap and water.

Wash contaminated clothing before reuse.

#### **INGESTION**

Call a physician or poison control center immediately. If professional advice is not available DO NOT induce vomiting or give anything by mouth to an unconscious person.

#### **EYE**

Flush eyes with water and seek immediate medical attention.

## **Section VII - Precautions for Safe Handling and Use**

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Avoid contact with skin and breathing dust. Do not eat, drink or smoke in work area. Wash hands prior to eating, drinking or using restroom. Follow protective controls set forth in Section VIII when handling this product.

#### WASTE DISPOSAL METHOD

Dispose of treated wood by ordinary trash collection or burial. Treated wood should not be burned in open fires or stoves, fireplaces or residential boilers because toxic chemicals may be produced as part of the smoke and ashes. Treated wood from commercial or industrial use (e.g. construction sites) may be burned only in commercial or industrial incinerators or boilers rated at 20 million BTU/hr or greater in heat input or its equivalent in accordance with state and Federal regulations.

#### STORAGE

Store treated wood in open, well ventilated area. Label treated wood with Consumer Information Sheet. Thoroughly read and follow the use site precautions identified on the Consumer Information Sheet.

## Section VIII - Control Measures

### RESPIRATORY PROTECTION:

When sanding, sawing, drilling or performing other work with treated wood (which may cause the release of dust), an approved respirator is recommended.

### VENTILATION

Maintain adequate ventilation to keep wood dust levels low. To determine exposure level(s), monitoring should be performed regularly

#### Wood Dust Exposure Guidelines

Wood Dust (ACGIH)	Hardwood	1 mg/m <sup>3</sup>	
	Softwood	5 mg/m <sup>3</sup>	STEL 10mg/m <sup>3</sup>

Hardwoods include beach, oak, mahogany, maple, walnut and others. Soft woods include fir and pine. If wood dust is maintained below acceptable levels, pentachlorophenol levels will not approach ACGIHOSHA limits.

### EYE AND FACE PROTECTION

Wear safety glasses and/or goggles or face shield when sawing, sanding, drilling or performing other work on treated lumber which may cause the release of wood dust or chips.

### SKIN PROTECTION/PROTECTIVE GLOVES

Avoid frequent or prolonged skin contact with pentachlorophenol treated wood. When handling the treated wood, wear pvc, neoprene or nitrile gloves.