

Nevada Wood Preserving, Inc.
P.O. Box 350, Silver Springs, NV 89429

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Trade Name: Pentachlorophenol Treated Wood	Chemical Class: Treated Wood
Manufacturer: Nevada Wood Preserving, Inc. 1680 Spruce Avenue, Silver Springs, NV 89429 775-577-2000	Emergency Phone Number: CHEMTREC 1-800-424-9300
Date Prepared: March 1, 1996	

Hazard Rating

	NFPA		HMIS
Health	1		1
Flammability	2		1
Reactivity	0		0
Special	None		None

2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Name	CAS#	% by Weight	Exposure Limits in air					
			ACGIH			OSHA		
			TLV mg/m3	STEL mg/m3	PEL mg/m3	STEL mg/m3	IDLH	OTHER
Pentachlorophenol	87-86-5	<0.01	0.5 Skin	NE	0.5 Skin	NE	NE	ACGIH BEI: 2 mg/g creatinine in urine: DFG MAK: 0.05 ppm
Fuel Oil	68476-34-6	<0.02	NE	NE	NE	NE	NE	NE
Wood	N/A	>99	1 (hard wood) 5 (soft wood)	10 (soft wood)	2.5 (Western Red Cedar) 5 (all other)	10 (All woods except Western Red Cedar)	NE	NE

NE = Not Established

C = Ceiling Level

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product consists of light tan to brown lumber or wood poles. It presents limited hazards in an emergency. Dusts from this product can be irritating to exposed tissue. It is a combustible material, which will decompose to produce acrid smoke and toxic gases (i.e., carbon monoxide and carbon dioxide).

POTENTIAL HEALTH EFFECTS BY ROUTE OF EXPOSURE

INHALATION: Inhalation of finely divided dusts of this product may cause irritation of the nose, throat, and other tissues of the respiratory system.

CONTACT WITH SKIN: Prolonged and/or repeated skin contact can cause mild irritation that disappears after exposure ends. If irritation persists, contact a physician.

EYE CONTACT: Dusts which may contaminate the eyes can cause irritation and scratching of eye tissues.

SKIN ABSORPTION: One component of this product, pentachlorophenol, is known to be a skin absorbing compound. Symptoms of such exposure can include redness, irritation, changes in respiration, and dizziness.

INGESTION: Ingestion of this product can irritate the mouth, throat, stomach, and other tissues of the digestive system. Symptoms of ingestion may include nausea, vomiting, and irritation.

INJECTION: The only way injection of this material could occur is by wood splinters puncturing the skin. The main symptoms associated with such an exposure would be redness and irritation at the point of injection.

Note: If any signs or symptoms of exposure persists, seek medical help immediately

HEALTH EFFECTS OR RISKS FROM EXPOSURE

ACUTE: The main health hazard presented by this product would be irritation of contaminated tissues - especially the skin and eyes.

CHRONIC: The symptoms of long-term exposure would be similar to those for acute exposure, described above. Additionally, some individuals can become sensitized to wood dusts and develop allergy like symptoms upon repeat exposures.

Studies have been conducted focusing on employees who routinely work with wood products. The International Agency for Research on Cancer reports that there is sufficient evidence that exposure to wood dusts from hardwood species may lead to an increased risk of nasal/paranasal sinus cancer.

4. FIRST AID MEASURES

SKIN EXPOSURE: Immediately begin cleansing effected area with running water. Remove exposed or contaminated clothing, taking care not to irritate the eyes.

EYE EXPOSURE: Open victim's eyes while under gentle running water. Use sufficient force to open eye lids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Victims with wood splinters in the eye must receive medical attention.

INHALATION: Remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers.

INGESTION: Call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting.

Victims of chemical exposure must seek medical attention if signs of irritation or other symptoms develop. Take a copy of the product label and MSDS to physician or health professional along with the victim.

5. FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: 200 - 270 degrees C

FLAMMABLE LIMITS (in air by volume) **Lower:** Not available **Upper:** Not available

FIRE EXTINGUISHING MATERIALS:

Water spray: yes **Carbon dioxide:** yes **Foam:** yes **Dry chemical:** yes **Halon:** no

Other: Any other Class A fire extinguishing agent.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is combustible. When involved in a fire, this material may decompose and produce irritating fumes and toxic gases (carbon monoxide and carbon dioxide).

EXPLOSION SENSITIVITY TO MECHANICAL IMPACT: N / A

EXPLOSION SENSITIVITY TO STATIC DISCHARGE: N / A

SPECIAL FIREFIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: This product cannot spill or leak because the chemicals are fixed in the wood. In the event of a release of dust or chips of this product, safety goggles, mechanically resistant gloves, and coveralls should be worn by cleanup personnel. In particularly dusty areas, use a MSHA/NIOSH approved dust mask. Sweep up or vacuum dust and chips. If necessary, rinse the area with soap and water.

7. HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: Avoid getting dusts on you or in you. Wash hands after handling this product. Do not eat or drink in areas where there are dusts of this material.

STORAGE AND HANDLING PRACTICES: Keep in cool, dry place away from open flame. Avoid contaminating food, feed, and water with dusts of this product. Always use this product in areas where adequate ventilation is provided.

PROTECTIVE PRACTICES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Follow the practices indicated in Section 6 - Accidental Release Measures.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation. Use mechanical fan or vent area to outside.

RESPIRATORY PROTECTION: If it is anticipated that the exposure limits for dust may be exceeded during work with this product, wear a MSHA/NIOSH approved dust mask.

EYE PROTECTION: Splash goggles or safety goggles.

HAND PROTECTION: Mechanically resistant gloves.

BODY PROTECTION: Use body protection appropriate for task (i.e., coveralls).

9. PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY: N / A

EVAPORATION RATE: N / A

SPECIFIC GRAVITY: N / A

MELTING POINT OR RANGE: N / A

SOLUBILITY IN WATER: Insoluble

BOILING POINT: N / A

VAPOR PRESSURE (mm Hg @ 20 degrees C): N / A

pH: N / A

APPEARANCE AND COLOR: light tan to brown lumber or wood poles with a fuel-like odor.

HOW TO DETECT THIS SUBSTANCE: There are no unusual warning properties associated with this product besides the fuel-like odor.

10. STABILITY AND REACTIVITY

STABILITY:

Stable

DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide, Chlorinated Dibenzodioxins, dibenzofurans, and other toxic compounds will be released upon combustion of this product.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: This material is incompatible with strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Avoid contact with open flame and other sources of extreme high temperatures. Avoid contact with incompatible materials.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

There is currently no toxicological information available on this product or for components greater than 1 percent in concentration.

SUSPECTED CANCER AGENTS:

This product's ingredients are not found on the following lists - Federal OSHA Z List, NTP, Cal/OSHA. Pentachlorophenol is on the IARC Cancer Review as having Human Limited Evidence and Animal Inadequate Evidence.

IRRITANCY OF PRODUCT:

This product is slightly irritating to contaminated tissue.

REPRODUCTIVE TOXICITY INFORMATION

Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity:

While no data exists for the product, it is not expected to cause fetal toxicity problems related to mutagenicity. Animal studies show some experimental mutagenic effects for pentachlorophenol at relatively high doses.

Teratogenicity:

While no data exists for the product, it is not expected to cause fetal toxicity problems related to teratogenicity. Animal studies show some experimental teratogenic effects for pentachlorophenol at relatively high doses.

Reproductive Toxicity:

While no data exists for the product, it is not expected to affect the male or female reproductive system or to cause any fetal toxicity problems. Animal studies show some experimental reproductive effects for pentachlorophenol at relatively high doses.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Disorders involving the skin, eyes, liver, or respiratory tract may be aggravated by occupational exposures to dusts of this product.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY:

This product is treated so it will not decompose. Pentachlorophenol will slowly be released into the environment and will slowly degrade into tetra- and trichlorophenol derivatives and carbon dioxide.

EFFECT OF MATERIAL ON PLANTS AND ANIMALS:

Do not use treated wood under any circumstances where the preservatives may become a component of food or animal feed. Examples of such sites would be structures or containers for storing silage or food.

EFFECT OF MATERIAL ON AQUATIC LIFE:

There is currently no information available on this product's effects on aquatic life; however, it is anticipated that if large enough quantity of product dusts contaminate a water system, exposed aquatic life may experience adverse health effects.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL:

Waste disposal must be according to appropriate Federal, State, and local regulations.

EPA WASTE NUMBER:

N / A

14. TRANSPORTATION INFORMATION

This material is not hazardous as defined by 49 CFR 172.101 by the U.S. Department of Transportation.

PROPER SHIPPING NAME: N / A
HAZARD CLASS NUMBER AND DESCRIPTION: N / A
UN IDENTIFICATION NUMBER: N / A
PACKAGING GROUP: N / A
DOT LABEL(S) REQUIRED: N / A
EMERGENCY RESPONSE GUIDE NUMBER: N / A
MARINE POLLUTANT: The treated wood is not defined as a marine pollutant under 49 CFR 172.101, Appendix B.
CTC DANGEROUS GOODS SHIPPING REGULATIONS: N / A

15. REGULATORY INFORMATION**NOTE:**

The regulatory information is provided on this sheet for the pentachlorophenol component contained in the treated wood. Chemical components of the treated wood are fixed into the wood and are not reportable under SARA or CERCLA.

SARA REPORTING REQUIREMENTS: The treated wood is not required to be reported under SARA.
TSCA INVENTORY STATUS: The chemicals in this product are listed on the TSCA inventory.
CERCLA REPORTABLE QUANTITY (RQ): Pentachlorophenol = 10 pounds
STATE REGULATORY INFORMATION: Chemicals in this product are covered under specific state regulations as denoted below.

Alaska - Designated Toxic and Hazardous Substances: Pentachlorophenol

California - Permissible Exposure Limits for Chemical Contaminants: Pentachlorophenol

Florida - Substance List: Pentachlorophenol

Illinois - Toxic Substances List: Pentachlorophenol

Kansas - Section 302/303 List: Pentachlorophenol

Massachusetts - Substance List: Pentachlorophenol

Minnesota - List of Hazardous Substances: Pentachlorophenol

Missouri - Employer Information/Toxic Substances List: Pentachlorophenol

New Jersey - Right to Know Hazardous Substance List: Pentachlorophenol

North Dakota - List of Hazardous Chemicals, Reportable Quantities: Pentachlorophenol

Pennsylvania - Hazardous Substances List: None

Rhode Island - Hazardous Substances List: Pentachlorophenol

Texas - Hazardous Substances List: Pentachlorophenol

West Virginia - Hazardous Substances List: Pentachlorophenol

Wisconsin - Toxic and Hazardous Substances List: Pentachlorophenol

CALIFORNIA PROPOSITION 65: Pentachlorophenol is on the California Proposition 65 list as a chemical known to the State of California to cause cancer.

LABELING (precautionary statements): CAUTION! Dusts of this product can irritate the skin, eyes, nose, throat, and other tissues of the respiratory system. Dusts can also scratch the eyes, and splinters of this product can puncture the skin. Avoid contact with skin and eyes. Avoid breathing dust.

TARGET ORGANS: (For dusts of product) Skin, Eyes, Respiratory System

WHIMS SYMBOL: N / A

16. OTHER INFORMATION

PREPARED BY: Arizona Pacific Wood Preserving, Inc.
P.O. Box 968
Eloy, AZ 85231
520-466-7801

INFORMATION CONTAINED IN THIS MSDS REFERS ONLY TO THE SPECIFIC MATERIAL DESIGNED AND DOES NOT RELATE TO ANY PROCESS OR TO USE WITH OTHER MATERIALS. THIS INFORMATION IS FURNISHED FREE OF CHARGE AND IS BASED ON DATA BELIEVED TO BE RELIABLE AS OF THE DATE HEREOF. IT IS INTENDED FOR THE USE BY THE PERSONS POSSESSING TECHNICAL KNOWLEDGE AT THEIR OWN DISCRETION AND RISK. SINCE ACTUAL USE IS BEYOND OUR CONTROL, NO GUARANTEE, EXPRESSED OR IMPLIED, AND NO LIABILITY IS ASSUMED BY NEVADA WOOD PRESERVING, INC. IN CONJUNCTION WITH THE USE OF THIS INFORMATION. NOTHING HEREIN IS TO BE CONSTRUED AS RECOMMENDATION TO INFRINGE ON ANY PATENTS.