



Safety Data Sheet

Material Name: Pentachlorophenol Pressure Treated Wood

SDS ID: BWP001

Section 1 - IDENTIFICATION

Material Name: Pentachlorophenol Pressure Treated Wood

Trade Names/Synonyms

Penta-treated wood

Recommended Use

Poles, Piling, Posts, Lumber, Timbers

Restrictions on Use

Pentachlorophenol pressure treated wood is treated with a Restricted Use Pesticide regulated under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and must be used for applications consistent with the product label and the American Wood Protection Association (AWPA) Use Category System as set forth in the most current edition.

Manufacturer Information

Brown Wood Preserving, Co., Inc.
6201 Camp Ground Road
Louisville, KY 40216-2135
Phone: 800-537-1765

CHEMTREC #: 800-424-9300

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with 29 CFR 1910.1200

Combustible Dust

Skin Corrosion / Irritation, Category 2

Eye Damage / Irritation, Category 2A

Respiratory sensitizer, Category 1

Skin sensitizer, Category 1

Carcinogenicity, Category 1A

Toxic to Reproduction, Category 1B

Specific Target Organ Toxicity - Single Exposure, Category 3 (respiratory tract)

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER

Hazard Statement(s)

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause cancer.

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May damage fertility or the unborn child.
May cause respiratory irritation.
May form combustible dust concentrations in air

Precautionary Statement(s)

Prevention

Wash thoroughly after handling. Wear protective gloves and eye/face protection. Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response

IF EXPOSED OR CONCERNED: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store in a well-ventilated place. Store in a controlled area.

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

No information is available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent
Not Available	Wood/Wood Dust	>84
68476-34-6	Fuel Oil/Petroleum Solvents (Meets AWWA P-9 Standards)	≤15
87-86-5	Pentachlorophenol	≤1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Wood dust, all soft and hard woods, Wood dusts (all other wood dusts), Wood dusts, douglas fir, southern yellow pine.

Other Information

The above values may vary slightly due to the variability of treatment and the natural variability of wood.
The above percentage ranges are in compliance with the Canadian Workplace Hazardous Information System (WHIMIS).

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

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Skin
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. DO NOT rub until skin is free of sawdust and preservative material. Call a physician if irritation persists. If wood splinters are injected under skin, get medical attention immediately.

Eyes
Flush eyes with plenty of water for at least 15 minutes. DO NOT rub eyes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion
If swallowed, get medical attention. Do not induce vomiting unless told to do so by the poison control center or doctor. Never make an unconscious person vomit or drink fluids.

Most Important Symptoms/Effects

Acute
Respiratory tract irritation, skin irritation, eye irritation, allergic reactions

Delayed
Allergic reactions, cancer hazard (in humans), reproductive effects

Indication of Immediate Medical Attention and Special Treatment

Note to Physician:
Pentachlorophenol is a metabolic stimulant. Treatment is supportive. Forced diuresis may be effective to reduce total body burden. Treat hyperthermia with physical measures. Do not administer aspirin, phenothiazines, or atropine since they may enhance toxicity.

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Suitable Extinguishing Media
Use carbon dioxide, regular dry chemical, regular foam or water.
Large fires: Use water spray, fog or regular foam.

Unsuitable Extinguishing Media
Halon

Specific Hazards Arising from the Chemical
Slight fire hazard. Combustible dust. Dust/air mixtures may ignite or explode. Generates Hydrochloric Acid on combustion

Hazardous Combustion Products
Combustion: carbon monoxide, carbon dioxide, chlorinated dibenzodioxins, dibenzofurans

Fire Fighting Measures
Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Use extinguishing agents appropriate for surrounding fire.

Special Protective Equipment and Precautions for Firefighters
Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

* * *Section 6 - ACCIDENTAL RELEASE MEASURES* * *

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up
Collect debris and used material in appropriate container for disposal. Powdered material may form explosive dust-air mixtures. Wet down area with water. Avoid generating dust. Avoid accumulation of airborne dusts. Sweep and scoop spilled material into clean, dedicated equipment. Clean up residue with vacuum. Keep unnecessary people away, isolate hazard area and deny entry.

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* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for Safe Handling

Follow good hygienic and housekeeping practices. Clean-up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize practices that generate airborne dust. When possible, conduct dust-generating activities outdoors to avoid indoor accumulations of airborne dust from treated wood. Avoid prolonged or repeated skin contact with this material. Avoid breathing dust. When handling treated wood, wear washable or disposable coveralls or long-sleeved shirt and long pants, chemical resistant gloves, and socks plus industrial grade safety boots with chemical resistant soles. Wear protective eye/face protection. In case of inadequate ventilation wear respiratory protection. To reduce sun sensitivity, a sun-blocking lotion (SPF15+) can also be applied. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Thoroughly clean and dry contaminated clothing and shoes before reuse. Treated wood is intended for exterior/outdoor uses only.

Conditions for Safe Storage, including any Incompatibilities

Store in accordance with all current regulations and standards. Store outdoors. Protect from physical damage. Avoid excessive heat and ignition sources. Keep away from incompatible materials.

Incompatibilities: strong acids, strong oxidizing materials (Hydrogen chloride, Chlorine, Chlorinated Hydrocarbons)

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Component Exposure Limits

Wood/Wood Dust (Not Available)

ACGIH:	1 mg/m ³ TWA (inhalable fraction, related to Wood dusts (all other wood dusts))
NIOSH:	1 mg/m ³ TWA (related to Wood dust, all soft and hard woods)
OSHA (vacated):	5 mg/m ³ TWA (related to Wood dust, all soft and hard woods) 10 mg/m ³ STEL (related to Wood dust, all soft and hard woods)
Mexico:	1 mg/m ³ TWA LMPE-PPT (related to Wood dusts-hard wood)
% Approx.:	84

Pentachlorophenol (87-86-5)

ACGIH:	0.5 mg/m ³ TWA Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	0.5 mg/m ³ TWA Potential for dermal absorption
% Approx.:	1 2.5 mg/m ³ IDLH
OSHA (US):	0.5 mg/m ³ TWA prevent or reduce skin absorption
OSHA (vacated):	0.5 mg/m ³ TWA Prevent or reduce skin absorption
Mexico:	0.5 mg/m ³ TWA LMPE-PPT 1.5 mg/m ³ STEL [LMPE-CT] Skin - potential for cutaneous absorption

Appropriate Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

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Individual Protection Measures, such as Personal Protective Equipment

Eyes/Face Protection

Wear safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing. When handling treated wood, wear washable or disposable coveralls or long-sleeved shirt and long pants, chemical resistant gloves, and socks plus industrial grade safety boots with chemical resistant soles.

Glove Recommendations

Wear chemical resistant work gloves, if necessary for type of operation. Individuals must wear gloves impervious to the wood treatment formulations in all situations where dermal contact with pentachlorophenol is expected.

Respiratory Protection

When sawing and machining treated wood, wear a dust mask.

If the applicable TLVs and/or PELs are exceeded, use canister or cartridge respirators, which are MSHA/NIOSH-approved, with high-efficiency particulate filters.

* * *Section 9 - PHYSICAL AND CHEMICAL PROPERTIES* * *

Physical State:	Solid	Appearance:	tan to dark-brown, Solid wood.
Color:	tan to dark-brown	Physical Form:	Solid wood.
Odor:	slight petroleum odor	Odor Threshold:	Not available
pH:	Not applicable	Melting Point:	Not applicable
Boiling Point:	Not applicable	Flash Point:	Not applicable
Decomposition:	Not available	Evaporation Rate:	Not applicable
LEL:	Not available	UEL:	Not available
Vapor Pressure:	Not available	Vapor Density (air = 1):	Not applicable
Density:	Not applicable	Specific Gravity (water = 1):	Not available
Water Solubility:	Insoluble	Coeff. Water/Oil Dist:	Not available
Auto Ignition:	Not available	Volatility:	Not applicable

Other Property Information

No additional information is available.

* * *Section 10 - STABILITY AND REACTIVITY* * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials

Strong acids, strong oxidizing materials (Hydrogen chloride, Chlorine, Chlorinated Hydrocarbons)

Hazardous Decomposition

Combustion: Carbon monoxide, carbon dioxide, chlorinated dibenzodioxins, dibenzofurans, Hydrogen chloride gas

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* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

Information on Likely Routes of Exposure

Inhalation

Irritation, allergic reactions, dryness, coughing, sneezing, sore throat, wheezing, chronic bronchitis, nosebleed, nausea, vomiting, loss of appetite, chest pain, difficulty breathing, irregular heartbeat, visual disturbances, headache, drowsiness, dilated pupils, lung damage, kidney damage, liver damage, nasal cancer, paranasal sinus cancer

Ingestion

Irritation, nausea, vomiting, loss of appetite, difficulty breathing, irregular heartbeat, headache, drowsiness

Skin Contact

Allergic reactions, irritation, burns, redness, skin disorders, irregular heartbeat, difficulty breathing, headache, visual disturbances, kidney damage, liver damage

Eye Contact

Irritation, redness, tearing, eye damage

Immediate Effects

Respiratory tract irritation, skin irritation, eye irritation, allergic reactions

Delayed Effects

Allergic reactions, cancer hazard (in humans), reproductive effects

Medical Conditions Aggravated by Exposure

Medical conditions include eye disorders, respiratory disorders, and skin disorders.

Irritation/Corrosivity Data

Respiratory tract irritation, skin irritation, eye irritation

Respiratory Sensitization

Yes

Dermal Sensitization

Yes

Carcinogenicity

Known Human Carcinogen

Component Carcinogenicity

Wood/Wood Dust (Not Available)

ACGIH: A1 - Confirmed Human Carcinogen (related to Wood dusts-hard wood)

IARC: Monograph 100C [2012]; Monograph 62 [1995] (Group 1 (carcinogenic to humans), related to Wood dust, all soft and hard woods)

NTP: Known Human Carcinogen (related to Wood dust, all soft and hard woods)

Pentachlorophenol (87-86-5); Fuel Oil/Petroleum Solvents (Meets AWPA P-9 Standards) (68476-34-6)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

IARC: Monograph 71 [1999]; Monograph 53 [1991] (Group 2B (possibly carcinogenic to humans))

Mutagenic Data

No data available.

Reproductive Effects Data

PENTACHLOROPHENOL has demonstrated animal effects of reproductive toxicity.

Specific Target Organ Toxicity - Single Exposure

Respiratory tract

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Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration Hazard

No data available.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Ecotoxicity

No data available for this product. Components of this product are hazardous to aquatic life. Very toxic to aquatic life.

Component Analysis - Aquatic Toxicity

Pentachlorophenol (87-86-5)

Fish: 96 Hr LC50 Pimephales promelas: 0.079 - 0.187 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 0.11 - 0.49 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.031 - 0.038 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 0.102 - 0.128 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.103 - 0.129 mg/L [flow-through]; 96 Hr LC50 Oryzias latipes: 0.170 - 0.3 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 0.36 mg/L

Algae: 96 Hr EC50 Pseudokirchneriella subcapitata: 0.005 - 0.3 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.1 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 0.183 mg/L [static]

Invertebrate: 48 Hr EC50 Daphnia magna: 0.138 - 0.307 mg/L [Static]

Persistence and Degradability

No data available for the mixture.

Bioaccumulative Potential

No data available for the mixture.

Mobility

No data available for the mixture.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose of in an approved landfill according to Federal, State, Provincial, and local regulations. Treated wood should not be burned in open fires or in 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 in accordance with state and federal regulations.

Waste Numbers

Pentachlorophenol (87-86-5)

RCRA: Possible Waste Number D037 (Max Concentration = 100 mg/L by TCLP)

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information

Not regulated.

US DOT Reportable Quantities

Pentachlorophenol (87-86-5)

10 lbs RQ; 4.54 kg RQ

TDG Information

Not regulated.

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Section 15 - REGULATORY INFORMATION

Component Analysis

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Pentachlorophenol (87-86-5)

SARA 313: 0.1 % de minimis concentration

CERCLA: 10 lb final RQ; 4.54 kg final RQ

FIFRA Information

No data available.

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Wood/Wood Dust (¹related to: Wood dust, all soft and hard woods) (²related to: Wood dusts-hard wood)	Not Available	No	No	Yes¹	Yes¹	Yes²
Pentachlorophenol	87-86-5	Yes	Yes	Yes	Yes	Yes
Fuel Oil/Petroleum Solvents (Meets AWPA P-9 Standards)	68476-34-6	No	No	No	Yes	No

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains a chemical known to the state of California to cause cancer.

Canada

WHMIS CLASSIFICATION: D2A, D2B.

Component Analysis - Inventory

Component	CAS	US	CA
Fuel Oil/Petroleum Solvents (Meets AWPA P-9 Standards)	68476-34-6	Yes	DSL
Pentachlorophenol	87-86-5	Yes	DSL

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* * *Section 16 - OTHER INFORMATION* * *

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations.; CPR - Controlled Products Regulations; DSL - Domestic Substances List; EPA - Environmental Protection Agency; IARC - International Agency for Research on Cancer; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; Kow - Octanol/water partition coefficient; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund

Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Workplace Hazardous Materials Information System

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. Read the Safety Data Sheet before handling product.

End of Sheet BWP001