

MATERIAL SAFETY DATA SHEET

HI-CLEAR II™ TREATED WOOD

PLEASE NOTE THIS INFORMATION IS BASED ON THE MATERIAL USED TO TREAT THE WOOD AND INCLUDES HAZARDS ASSOCIATED WITH WOOD DUST GENERATED FROM SAWING, SANDING, ROUTING, OR CHIPPING. THESE HAZARDS ARE ESSENTIALLY THE SAME AS FOR UNTREATED WOOD.

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: HI-CLEAR II™ TREATED WOOD
 PRODUCT USE: LUMBER

MANUFACTURER INFORMATION: Permapost Products Company, Inc.
 4066 SE Tualatin Valley Highway
 P.O. Box 100
 Hillsboro, OR 97123

EMERGENCY TELEPHONE: 503.648.4156

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. A non-emergency questions should be directed to customer service.

SECTION 2 – COMPOSITION/ INFORMATION ON INGREDIENTS

<u>INGREDIENT NAME</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>	<u>%w/w</u>
3-iodo-2-propynyl butyl carbamate	55406-53-6	N/A	N/A	N/A	0.035 pcf
Permethrin	52645-53-1	N/A	N/A	N/A	0.006 pcf
Glycol ether	Proprietary	N/A	N/A	N/A	0.07 pcf
Mineral Spirits	8052-41-3	100 ppm	100 ppm	N/A	See note*
Wood/Wood dust	Not Available	50 mg/M3	2.5 mg/M3		99-100%

**Residual hydrocarbon solvent may result in detectable odors. The odor level is influenced by the amount of solvent remaining in the wood and the type of solvent used as a preservative carrier.*

HI-CLEAR II™ Treated Wood products are made up of >99% “wood” and <1% Permethrin/IPBC, EPA registered wood preservatives.

This product is considered hazardous under the criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard) and the Canadian Workplace Hazardous Materials Information System (WHMIS)

SECTION 3 – HAZARDS IDENTIFICATION

WARNING! Wood dust may form explosive mixture with air. Wood dusts may cause irritation to the eyes, skin, and respiratory tract.

ROUTES OF ENTRY: Dermal, Ingestion, and Inhalation.

POTENTIAL HEALTH EFFECTS: EYES

Contact with **eyes** can cause severe irritation, redness, tearing, and blurred vision.

POTENTIAL HEALTH EFFECTS: SKIN

Prolonged or repeated contact with **skin** can cause severe irritation or dermatitis.

POTENTIAL HEALTH EFFECTS: INGESTION

Eating treated sawdust may cause mouth, throat and stomach irritation.

POTENTIAL HEALTH EFFECTS: INHALATION

If **inhaled**, wood dust may be irritating to nose and throat. Can cause chest pains and chemical pneumonitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Inhalation exposure may aggravate pre-existing respiratory ailments. Skin contact may aggravate pre-existing dermatitis.

HMIS CODES

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PROTECTION:	B (safety glasses and gloves)

SECTION 4 – FIRST AID MEASURES

EMERGENCY PHONE NUMBER OF MANUFACTURER: 503.648.4156

- 1. INHALATION:** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet. Get medical attention.
- 2. EYE CONTACT:** If wood fibers are in the eyes, 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. Seek medical attention, especially if splintering occurs in the eye.
- 3. SKIN CONTACT:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.
- 4. INGESTION:** If treated wood is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Aspiration of material in the lungs due to vomiting can cause chemical pneumonitis, which can be fatal. Never induce vomiting or give diluent (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Get medical attention.

NOTES TO PHYSICIAN: Permethrin has low oral, dermal, and inhalation toxicity, and is moderately irritating to the skin and eyes. Reversible skin sensations (parasthesia) may occur and ordinary skin salve have been found useful in reducing discomfort. Contains aromatic hydrocarbons that can produce a severe pneumonitis if aspirated during vomiting. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise controlled removal exposure followed by symptomatic and supportive care.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT:	N/A	NFPA CODES	HEALTH:	1
METHOD:	N/A		FLAMMABILITY:	1
FLAMMABLE LIMITS IN AIR (%):	N/A		REACTIVITY:	0
AUTOIGNITION TEMPERATURE:	400°-500°F		OTHER:	N/A

EXTINGUISHER MEDIA: Water spray, dry chemical, carbon dioxide, halon, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Product will burn or contribute to intensity of fire. Fire fighting should be aimed at surrounding materials. Incipient fire responders should wear eye protection and self-contained breathing apparatus. Structural fire fighters must wear self-contained breathing apparatus and full turn-out gear (bunker gear). Toxic vapors, including carbon monoxide, may be given off from burning wood.

UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated to decomposition, this product may emit toxic fumes containing carbon monoxide, various hydrocarbons and nitric oxides.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up for recovery or disposal.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: HI-CLEAR II™ Treated Wood must be dry and odor free before using in construction. After treatment and prior to use, place treated material in well ventilated area or "open area" environment, protect from the elements, and stack so that air circulates around each piece until dry and odor free.

OTHER PRECAUTIONS: Do not allow vapors to collect in closed spaces (especially working or living areas) during the drying process. Do not breathe vapors of freshly treated wood. Do not install in enclosed or interior areas until solvents have completely volatilized.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not required under normal use conditions. When sawing or machining treated wood, wear a MSHA/NIOSH approved dust high efficiency filter respirator.

VENTILATION REQUIREMENTS: Provide sufficient exhaust ventilation to control inhalation exposures below current exposure limits and areas below explosive dust concentration. Whenever possible, these operations should be performed outdoors.

PROTECTIVE GLOVES: Use appropriate gloves. When handling freshly "treated" wet wood use neoprene or nitrile rubber gloves. Check gloves for leaks. When handling dry wood use leather or heavy cotton gloves to avoid splinters. Wash hands after removing gloves.

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: Use body protection appropriate for task. Chemically protective clothing made from vinyl, neoprene, or nitrile rubber is generally acceptable during the treating process and handling freshly treated lumber.

WORK/HYGIENIC PRACTICES: After working with treated wood, and before eating, drinking, and use of tobacco products, wash hands and other exposed areas thoroughly. Good personal hygiene should be observed. Launder clothing contaminated with sawdust prior to re-use.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE AND ODOR: HI-CLEAR II™ treated wood has a natural appearance. Slight hydrocarbon odor.			
BOILING POINT (INITIAL)(F/C):	N/A	% VOC CONTENT BY WEIGHT:	N/A
VAPOR PRESSURE (mmHg):	N/A	SPECIFIC GRAVITY (H20=1):	N/A
DENSITY:	N/A	pH:	N/A
EVAPORATION RATE (nBuAC=1):	N/A	FREEZING POINT:	N/A
VAPOR DENSITY (AIR=1):	N/A	MELTING POINT:	N/A

SECTION 10 – CHEMICAL STABILITY & REACTIVITY INFORMATION

IS THIS CHEMICAL STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE (Y/N)? Y

CONDITIONS TO AVOID (REGARDING STABILITY): Open flames will cause product to decompose, possibly producing toxic gases. Avoid contact with open flames.

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid contact with oxidizing agents.

HAZARDOUS POLYMERIZATION POSSIBLE (Y/N) Will not occur.

CONDITIONS TO AVOID (REGARDING POLYMERIZATION): N/A

SECTION 11 – TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE: If **inhaled**, wood dust may be irritating to nose and throat. Can cause chest pains and chemical pneumonitis. Preservative vapor may cause respiratory tract irritation. If exposed in a closed space, vapors may cause headache, drowsiness and possible weakness and incoordination. Prolonged or repeated contact with **skin** can cause severe irritation or dermatitis. Contact with **eyes** can cause severe irritation, redness, tearing, and blurred vision. **Eating** treated sawdust may cause mouth, throat and stomach irritation. Nausea, vomiting and diarrhea can occur.

CHRONIC OVEREXPOSURE: The principal health effects reported from occupational exposure to sawdust or wood dust generated from untreated wood are dermatitis, rhinitis, conjunctivitis, reduced or suppressed mucociliary clearance rates, chronic obstructive lung changes, and nasal sinus cancer. Skin and respiratory sensitization have been reported have been reported from exposure to hardwood dust. Epidemiological studies have been reported on carcinogenic risks of employment in the furniture making industry, the carpentry industry, and the lumber sawmill industry. IARC has determined that there is sufficient evidence to classify untreated wood dust as a nasal carcinogen in humans. (Ref. Monograph 62)

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?:	N/A
• NATIONAL TOXICOLOGY PROGRAM (Y/N)?	N
• IARC MONOGRAPHS (Y/N)?	N
• OSHA (Y/N)?	N

SECTION 12 - ECOLOGICAL INFORMATION

GENERAL PRODUCT INFORMATION: This product is not expected to leach harmful amounts of preservatives into the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by the handling, may be disposed of by means of sanitary landfill facility. Treated wood should not be burned in open fires or in stoves, fireplaces, or residential boilers.

SECTION 14 – TRANSPORTATION INFORMATION

This product is classified for transportation purposes as follows:

	YES	NO
IATA (air)		X
IMO (water)		X
DOT (land)		X

SECTION 15 – REGULATORY INFORMATION

SARA REPORTING REQUIREMENTS: The chemicals in this product are not subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act.

TSCA INVENTORY STATUS: The chemicals in this product ARE listed on the TSCA Inventory.

STATE REGULATORY INFORMATION: The chemicals in this product are covered under specific state regulations:

California:	Workplace Airborne Contaminants
Illinois:	Toxic Substances Disclosure

LABELING (PRECAUTIONARY STATEMENT): Handle in a well ventilated area. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

SECTION 16 – OTHER INFORMATION

HI-CLEAR II™ Treated Wood should be used only for exterior above ground, or interior applications. GROUND OR WATER CONTACT IS NOT RECOMMENDED.

N/A = Not Applicable

DISCLAIMER: Manufacturer gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Manufacturer expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

This is the end of MSDS #030710-C2-002