

SAFETY DATA SHEET

KLEAR GARD-25™ 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 UNTREATED WOOD.

SECTION 1 – IDENTIFICATION

CHEMICAL NAME:	KLEAR GARD-25™ with True Core Technology Treated Wood (Wood boards and wood dust of finely divided wood particles generated during sawing, sanding, routing, or chipping wood products)
PRODUCT USE:	WOOD AND WOOD PRODUCTS
MANUFACTURER INFORMATION:	Permapost Products Company, Inc. 4205 SE WITCH HAZEL ROAD P.O. Box 100 Hillsboro, OR 97123
MANUFACTURER TELEPHONE:	503.648.4156
EMERGENCY TELEPHONE:	CHEMTREC: 1-800-424-9300

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 manufacturer customer service.

SECTION 2 – HAZARDS IDENTIFICATION



Signal Word: DANGER, Wood dust may form an explosive mixture with air. Wood dust may cause irritation to the eyes, skin, and respiratory tract. Exposure to treated wood may cause health hazards described below.

Hazard Statement(s):

- Causes eye irritation
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
- May cause cancer
- Suspected of damaging fertility or the unborn child
- May cause respiratory irritation. May cause drowsiness or dizziness

Classification in accordance with 29 CFR 1910.1200

- Combustible Dust

- Skin Corrosion / Irritation, Category 2
- Serious Eye Damage / Irritation, Category 2B
- Respiratory sensitizer, Category 1
- Skin sensitizer, Category 1
- Carcinogenicity, Category 1A
- Reproductive toxicity, Category 2
- Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system, respiratory tract)

Precautionary Statements - Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash face, hands and any exposed skin thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.
- Prevent dust accumulation and airborne dispersion of dust to minimize flash fire and explosion hazard.

Precautionary Statements - Response

- If exposed or concerned: Get medical advice/attention
- 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
- IF ON SKIN: Wash with plenty of water and soap
- If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor
- IF INHALED: Remove person to fresh air and keep comfortable for breathing

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

Other Hazards - Hazards not otherwise classified (HNOC)

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Other information

This wood product is protected with one or more wood preservatives that are registered with the Environmental Protection Agency (EPA). The amounts of the preservatives on the dry wood are far below OSHA reportable limits. The presence of the preservatives in the treated wood and wood dust is not expected to affect the wood's inherent toxicity characteristics. Precautions for handling the dry protected wood are the same as the safe handling procedures used for untreated wood; however, treated wood products may not be used for animal bedding, mulch, food preparation surfaces, cooking or comfort fires, bathing enclosures or other similar uses.

Unknown Acute Toxicity

< 1% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance – Not Applicable

Mixture

Chemical Name	CAS-No	Weight %
Wood dust	RR-00514-1	90 - 100
Borates	Proprietary	1 - 5

The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 – FIRST AID MEASURES

General Advice: If symptoms persist, call a physician

1. **INHALATION:** Move to fresh air. Immediate medical attention is not required. Get medical attention if symptoms occur. Call a physician if irritation develops or persists.
2. **EYE CONTACT:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation develops or persists.
3. **SKIN CONTACT:** Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Immediate medical attention is not required. Call a physician if irritation develops or persists.
4. **INGESTION:** If treated wood is swallowed, call physician or poison control center. Do not induce vomiting. Seek medical advice or attention immediately.

Most important symptoms and effects, both acute and delayed - No information available.**Indication of any immediate medical attention and special treatment needed****Notes to physician:** Treat symptomatically. No information available.**SECTION 5 – FIRE FIGHTING MEASURES**Suitable Extinguishing Media - Water spray, fog or regular foam. Carbon dioxide (CO 2). Dry chemical.Unsuitable Extinguishing Media High volume water jet.**Special hazards arising from the substance or mixture**Special Hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Under certain conditions, a fine dust cloud of this material in air may cause a dust explosion if ignited, as when exposed to heat, sparks or open flame.Hazardous Combustion Products No information available.**Explosion Data**

Sensitivity to Mechanical Impact	No information available.
Sensitivity to Static Discharge	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. May be ignited by friction, heat, sparks or flames.

Advice for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Klear Gard treated wood is unlikely to be involved in a release or spill because the chemical is fixed in the wood. If treated wood or chemical is released, follow the instructions below.

Personal Precautions, Protective Equipment and Emergency Procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Nonsparking tools should be used. Ensure adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not burn treated wood. Do not use treated wood as mulch, animal bedding or for food preparation surfaces.

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. Airborne 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

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling	Do Not Burn Treated Wood. Minimize dust generation and accumulation. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ensure adequate ventilation. No smoking.
Hygiene measures	Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Keep away from food and drink. Keep working clothes separately.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep away from open flames, hot surfaces and sources of ignition. Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Do not store near combustible materials.
Materials to Avoid	No materials to be especially mentioned.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	British Columbia	Alberta	Quebec	Ontario TWAEV
Wood dust RR-00514-1	TWA: 10 mg/m ³ inhalable particles, recommended TWA: 3 mg/m ³ respirable particles, recommended	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 5 mg/m ³ TWA: 10 mg/m ³	TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 3 mg/m ³ STEL: 10 mg/m ³
Borates	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction	-	TWA: 2 mg/m ³ STEL: 6 mg/m ³			

Engineering Measures Provide appropriate exhaust ventilation at places where dust is formed. Use adequate ventilation to maintain airborne concentrations at levels below permissible or recommended occupational exposure limits. Due to the fire and explosive potential of dust when suspended in air, precautions should be taken when material is used in any operation which may generate dust. Local exhaust, general dilution ventilation in enclosed areas, and explosion proof equipment is recommended.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Skin and body protection Wear impervious gloves and/or clothing if needed to prevent contact with the material.
Remove and wash contaminated clothing before re-use.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene measures See section 7 for more information

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State:	Solid
Appearance:	No information available
Color:	various
Odor	No information available
Odor Threshold	No information available

BOILING POINT:	No information available
FLASH POINT:	Not applicable
LEL:	No information available
VAPOR PRESSURE (mmHg):	No information available
DENSITY:	No information available
EVAPORATION RATE:	No information available
PARTITION COEFFICIENT:	No information available
SPECIFIC GRAVITY (H ₂ O=1):	No information available
pH:	No information available
FREEZING POINT:	No information available
VAPOR DENSITY (AIR=1):	No information available
MELTING POINT:	No information available
VISCOSITY (KINEMATIC, DYNAMIC):	No information available
SOLUBILITY IN WATER:	No information available
SOLUBILITY IN OTHER SOLVENTS:	No information available
AUTOIGNITION TEMPERATURE:	No information available
DECOMPOSITION TEMPERATURE	No information available

EXPLOSIVE PROPERTIES	No information available
OXIDIZING PROPERTIES	No information available

Other Information: Volatile organic compounds (VOC) content – No information available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	None under normal processing.
Conditions to Avoid:	Dust formation, Avoid dust clouds or layers, Avoid heat, flames and sparks.
Incompatible Materials:	No materials to be especially mentioned.
Hazardous Decomposition Products:	Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11 – TOXICOLOGICAL INFORMATION**Acute toxicity**

Numerical measures of toxicity (Product Information) - Unknown Acute Toxicity, < 1% of the mixture consists of ingredient(s) of unknown toxicity

Numerical measures of toxicity: Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Borates	2500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.0 mg/L (Rat) 4 h

Information on toxicological effectsSkin corrosion/irritation

Product Information - No information available

Component Information - No information available

Serious eye damage/eye irritation

Product Information - No information available

Component Information - No information available

Respiratory or skin sensitization

Product Information - No information available

Component Information - No information available

Germ cell mutagenicity

Product Information - No information available

Component Information - No information available

Carcinogenicity

Product Information - The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information - Contains a known or suspected carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Wood dust RR-00514-1	A1	Group 1	Known	--

Reproductive toxicity

Product Information - No information available

Component Information,

Borates: Animal ingestion studies, at high doses, indicate that borate compounds cause reproductive and developmental effects. Occupational studies evaluating highly exposed borate workers found no adverse effects in workers. Epidemiological studies of human developmental effects have shown an absence of effects in exposed borate workers and populations living in areas with high environmental levels of boron. The Environmental Protection Agency (EPA) has concluded that the use of borate compounds is sufficiently supported by appropriate scientific studies and that their uses are not expected to cause unreasonable adverse risks to humans or the environment. EPA has also concluded that the likelihood of developmental toxicity risk to workers is not considered to be of concern because the pattern of use would result in minimal occupational exposure.

STOT - single exposure - No information available**STOT - repeated exposure** - No information available**Other adverse effects**

Product Information - No information available

Component Information - No information available

Aspiration hazard

Product Information - No information available

Component Information - No information available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity - Ecotoxicity: No information available, 100 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability - No information available.

Bioaccumulative potential - Discharge into the environment must be avoided.

Mobility in soil - No information available.

Other adverse effects - No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS**Disposal Methods**

Dispose in accordance with all applicable Federal, State, 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.

SECTION 14 – TRANSPORTATION INFORMATION

US DOT Information - Not regulated.

MEX Information - Not regulated.

IMDG Information – Not regulated

IATA Information – Not regulated

SECTION 15 – REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	-
EINECS/ELINCS	-
ENCS	-
IECSC	-
KECL	-
PICCS	-
AICS	-
NZIoC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL - Canadian Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical

Substances **IECSC** - China Inventory of

Existing Chemical Substances **KECL** -

Korean Existing and Evaluated Chemical

Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Pesticide Information - Not applicable

U.S. State Regulations

California Proposition 65 - This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Wood dust - RR-00514-1	Carcinogen

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

SECTION 16 – OTHER INFORMATION

NFPA: Health = 2

Flammability = 1

Instability = 0

Special = N/A

HMIS: Health = 2*

Flammability = 1

Physical Hazard = 0

Personal Protection = N/A

Legend:

ACGIH (American Conference of Governmental Industrial Hygienists)

Ceiling (C)

DOT (Department of Transportation)

EPA (Environmental Protection Agency)

IARC (International Agency for Research on Cancer)

International Air Transport Association (IATA)
International Maritime Dangerous Goods (IMDG)
NIOSH (National Institute for Occupational Safety and Health)
NTP (National Toxicology Program)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
Reportable Quantity (RQ)
**Skin designation (S*)*
STEL (Short Term Exposure Limit)
TLV® (Threshold Limit Value)
TWA (time-weighted average)

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

END OF SAFETY DATA SHEET