

Borate Wood Preservatives

Shell-Guard® RTU

Ready-To-Use Wood Preservative

Borates are recognized as being the most effective “green” wood preservatives that are available. *Shell-Guard RTU* is a ready-to-use borate/glycol wood preservative that is colorless, odorless and has a very low toxicity to people and pets. It is effective for preventing and eliminating wood decay and wood destroying insect infestations in exterior and interior wood members.

Shell Guard RTU must be applied to bare wood for it to work. Although most borate products must be dissolved in water prior to use, *Shell Guard RTU* is ready-to-use so you can pour it right out of the container into your low pressure sprayer without the fuss of measuring, mixing and stirring. And if you have any left over you can pour it right back into the container for later use.

Another advantage to *Shell-Guard RTU* is its quick drying time. Your logs will be ready to finish one to three days after it's applied. Since it penetrates into the wood, one application of *Shell-Guard RTU* is permanent when exterior wood surfaces remain protected with one of our *Lifeline* exterior finish systems. *Shell-Guard RTU* is labeled for the control of termites, wood boring beetles, carpenter ants and wood decay fungi.

Surface Preparation:
Must be applied to clean and dry bare wood.

Application Rates:
1 gallon will cover 150 to 250 sq.ft. of wood surface.

Application Temperature:
40° F to 90° F

Application Methods:
Low pressure sprayer.
Drill and inject.

of Coats:
1 coat application.

Drying Time:
1 to 3 days.

Clean up:
Soap and water.

Packaging:
1 gallon container.
2.5 gallon container.
5 gallon carton.

Storage/Shelf Life:
Store in heated area.
2 years.



Shell-Guard RTU

Shell-Guard Concentrate

Armor-Guard

	Shell-Guard RTU	Shell-Guard Concentrate	Armor-Guard
Mixing	No mixing required.	Mix 1 to 1 with water.	Mix 1 lb. per gallon of water.
Washing	Not required.	Wash down after 2 weeks.	Not required.
Duration of Treatment	Permanent treatment.	Permanent treatment.	Should be reapplied if home stripped.
Limitations	None.	None.	Should be used only on new uninfested wood.



Washington 1-800-548-1231; Tennessee 1-800-548-3554; Montana 1-800-479-7090;
Minnesota 1-877-244-6548; Colorado 1-800-433-8781
www.permachink.com

SHELL-GUARD® RTU

Ready-To-Use Wood Preservative

A Penetrating Broad Spectrum Wood Preservative for the Protection and Treatment of Wood Against Decay, Termites, Carpenter Ants and Wood Boring Beetles.

- ◆ *Use Shell-Guard RTU to prevent wood decay and insect damage to all interior and exterior wood.*
- ◆ *Use Shell-Guard RTU to eliminate wood destroying insects and wood decay.*

ACTIVE INGREDIENT
Disodium Octaborate Tetrahydrate ---10% by weight
(NaBO₈ · 4H₂O)
OTHER INGREDIENTS -----90% by weight
Total 100%

EPA Reg. No. 59905-12

CAUTION
KEEP OUT OF REACH OF CHILDREN
NOT FOR FOOD OR DRUG USE

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Do not leave container where children or animals may gain access.

ENVIRONMENTAL HAZARDS

Shell-Guard RTU solutions carelessly spilled or applied to cropland or growing plants, including trees and shrubs, may kill or seriously retard plant growth. This pesticide is toxic to fish and wildlife. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Personal Protective Equipment (PPE)

Loaders, applicators and other handlers must wear: Long sleeve shirt and long pants, shoes plus socks, protective eyewear, chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton) and, in confined spaces, a respirator with an organic removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge with any N, R, P or HE prefilter.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
Users should remove personal protection equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly.

FIRST AID

IF SWALLOWED	Immediately call a poison control center or doctor for treatment advice. Have person sip 1 to 2 glasses of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency, you may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information Monday through Friday, 8 a.m. to 4:30 p.m. (Central Time). After 4:30 p.m. call your poison control center.	

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Storage: Store in a dry place. Do not store where children or animals may gain access. Protect from freezing.
Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
Container Disposal: Do not reuse empty container. Consult Federal, State, or Local authorities for approved disposal procedures.

See Next Page for Directions for Use.

Manufactured by:

PERMA-CHINK®
SYSTEMS, INC.

www.permachink.com

Knoxville, TN
(800) 548-3554

Shell-Guard® RTU is a formulation of boron compounds with additives that allow the active ingredient to penetrate throughout the wood. **Shell-Guard RTU** offers far greater wood protection than other preservatives that treat only the surface.

DIRECTIONS FOR USE:

It is violation of Federal Law to use this product in a manner inconsistent with its labeling.

Safe Handling Procedures

Spills and over-spray may be cleaned with a damp cloth or absorbed with appropriate materials. When applying this product in confined spaces, it is recommended that ventilation or an exhaust system be provided. If this is impractical, the use of a NIOSH approved respirator designed for protection from organic vapors is recommended.

Surface Preparation

Apply only to bare, dry wood. Remove any previous finishes or water repellents before applying **Shell-Guard RTU**. Surfaces to be treated should be clean and free of dirt and other contaminants. If the finished appearance is a primary concern, mold and mildew should also be removed prior to application of **Shell-Guard RTU**. If detergents or cleaners are used to prepare the surface, rinse thoroughly and allow surface to dry prior to application of **Shell-Guard RTU**.

Coverage

One (1) gallon of **Shell-Guard RTU** will treat between 150 to 250 square feet of wood surface area (one coat). Actual coverage will vary, depending on the surface texture and porosity of the wood being treated.

Application Instructions

Apply one (1) coat of **Shell-Guard RTU** to all exposed sides of lumber or plywood. For lumber thicker than one (1) inch, apply a second coat after the first has been absorbed. Wait at least 20 minutes between applications.

Shell-Guard RTU treated exterior wood should not be exposed to rain or snow for at least 24 hours after treatment. If necessary, cover freshly treated exterior wood with a tarp

Maintenance of Treated Surfaces

Shell-Guard RTU should be applied annually to exterior unfinished bare wood surfaces. For longer protection, exterior surfaces that have been treated with **Shell-Guard RTU** may be subsequently coated with a water resistant finish such as paint or exterior stain. Interior surfaces do not require coating except in situations involving repeated moisture contact or high humidity, such as shower stalls, bathhouses, saunas, etc. It is important to allow **Shell-Guard RTU** to completely dry (at least 24 hours) before applying any protective finish. The finish or topcoat should be applied within two (2) weeks of treatment. Although a wide variety of paints and stains have been successfully used over **Shell-Guard RTU** treated wood, it is always a good idea to coat a small section of treated wood with the finish to be used and check for compatibility prior to complete application.

Cleanup

Use soap and water to clean up tools.

Notice

Seller makes no warranty expressed or implied, concerning the use of this product other than as indicated on the label. Buyer assumes all risk of use and/or handling of this material when use and/or handling is contrary to label instructions. Because of many varying conditions affecting use and application, manufacturer warns complete prevention of decay by fungi or other organisms is not guaranteed. Neither manufacturer nor seller shall be liable in respect to any injury or damages suffered by reason of the use of this product for a purpose not indicated by the label, or when used contrary to the directions or instructions hereon, nor with respect to breach of any warranty not expressly specified herein. Buyer accepts this material subject to these terms, and assumes all risk of usage and handling except when used or handled in accordance with this label. There are no expressed or implied warranties of merchantability or fitness for any particular purpose, except as specifically stated herein. Manufacturer shall not be liable for any consequential damages based on the use of the product.

Manufactured by:

Perma-Chink Systems, Inc.
Knoxville, TN

Made in USA

Material Safety Data Sheet

IDENTITY (As Used on Label and List)

Shell-Guard RTU



Section I

Manufactured By: Perma-Chink Systems, Inc.	Emergency Telephone Number: CHEMTREC 1-800-424-9300
Address (Number, Street, City, State, and ZIP code) 1605 Prosser Road	Telephone Number for Information: 865-524-7343
Knoxville, TN 37914	Date of Preparation 8/17/09
Preparer's Name Sean Gahan	Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Component (Specific Chemical Identity, Common Name(s))	CAS #	OSHA / PEL	ACGIH TLV	Other Limit Recommended	% (optional)
Propylene Glycol	57-55-6	N/A	N/A		
Polyethylene Glycol	25322-68-3	N/A	N/A		
Disodium Octaborate Tetrahydrate	12280-03-4	5 mg/m ³ (respirable dust) 15 mg/m ³ (total dust)	10 mg/m ³		10

Section III – Physical/Chemical Characteristics

Boiling Point: > 212°F	Specific Gravity (H ₂ O = 1) 1.0 – 1.1
Vapor Pressure (mm Hg.) = Water	Melting Point % Volatile (Volume) 10
Vapor Density (Air = 1) > 1	Evaporation Rate (Butyl Acetate = 1) < 1
Solubility in Water Miscible in water, alcohol, acetone, some glycol ethers; insoluble in petroleum hydrocarbons.	
Appearance and Odor Clear, odorless liquid	

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) Non-flammable	Flammable Limitations Non-Flammable	LEL	UEL
Extinguishing Media Non-Flammable			
Special Fire Fighting Procedures Non-Flammable			
Unusual Fire and Explosion Hazards Non-Flammable.			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	✓	Avoid extreme heat
Incompatibility (Materials to Avoid) None known			
Hazardous Decomposition or Byproducts None known			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	None Known

Section VI – Health Hazard Data

Routes of Entry	Inhalation	No	Skin	Yes	Ingestion	Yes	Eye Contact	Yes
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Health Hazards (Acute and Chronic)

Eye contact: May cause redness or irritation. Skin Contact: May cause skin irritation or redness

Ingestion: May cause gastrointestinal distress. Inhalation: N/A

Carcinogenicity	NO	NTP	NO	IARC Monographs	NO	OSHA Regulated	NO
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No adverse long term effects are known.

Signs and Symptoms of Exposure:

Medical Conditions: Generally aggravated by exposure. No adverse long term effects are known.

Emergency and First Aid Procedures:

Eye contact: Hold eyes open and flush eyes immediately with clean water for at least 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Seek medical attention.

Ingestion: Immediately call poison control or seek medical attention. Drink 1-2 glasses of water if person is able to swallow. DO NOT INDUCE VOMITING.

Skin contact: Wash affected area with soap and warm water and rinse with clean water for 15-20 minutes. Remove grossly contaminated clothing including shoes. Launder before reuse.

Inhalation: Move person to fresh air. If person is not breathing, call 911 then start artificial respiration.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled

Soak up spill with absorbent material.

Waste Disposal Method

Dispose of material in accordance with all applicable Federal, State, and Local regulations.

Precautions to be taken in Handling and Storing

Store in original container. Keep lid tightly closed. Do not reuse container for other purposes. KEEP OUT OF REACH OF CHILDREN.

Other Precautions

Read and observe all precautions on product label. Protect product from freezing.

Section VIII – Control Measures

Respiratory Protection (Specify Type): For confined spaces a respirator with an organic removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge with any N, R, P or HE prefilter.

Ventilation	Local Exhaust None normally required.	Special
	Mechanical (general)	Other
Protective Gloves	Chemical resistant gloves	Eye Protection Safety glasses or Goggles.

Other Protective Clothing or Equipment

Long sleeve shirt, long pants, shoes plus socks

Work/Hygenic Practices : Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

The information contained herein is, to the best of Perma-Chink Systems, Inc. knowledge, accurate as of the data indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assumes the risk of his use thereof.