PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Do not get in eyes, on skin or clothing. Do not breathe vapor. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Harmful if absorbed through the skin.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear:
- Long-sleeved shirt and long-pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Protective eyewear (chemicals splash goggles or face shield)

Individuals who enter pressure treatment cylinders and other related equipment that are contaminated with the wood treatment solution (e.g., cylinders that are in operation or are not free of the treatment solution) must wear the following PPE: long-sleeved shirt and long-pants, chemical-resistant gloves, chemical resistant footwear plus socks, protective eyewear (chemicals splash goggles or face shield) and a respirator with an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Protective clothing must be changed when it shows signs of contamination. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Applicators must not eat or drink, or use tobacco products during those parts of the application process that may expose them to the wood treatment formulation (e.g., manually opening/closing cylinder doors, moving trams out of cylinders, chemicals, handling freshly treated wood).

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates. Do not contaminate water by cleaning of equipment or disposal of wash waters. 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.

PHYSICAL AND CHEMICAL HAZARDS
Do not use or store near heat or open flame.

MYCOSTAT® CF
Active Ingredients:
Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate: 50.0%
Inert Ingredients: 50.0%
Total: 100.0%

Contains 7.9 lbs. of product per gallon at 25°C

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
If in eyes:
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for 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.
If swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Have a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.
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.

NOTE TO PHYSICIAN
Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Registration No. 6836 - 304 - 70227
EPA Establishment No. 70227 - CAN - 001
EPA Establishment No. 6836-IL-1
Net Contents

Distributed by:
Diacon Technologies Ltd.
135 – 11960 Hammersmith Way Richmond BC Canada V7A 5C9
MYCOSTAT® CF is a concentrated biocide for use as a wood preservative. When used as directed, MYCOSTAT® CF will protect treated wood articles from the destructive attack of fungi, mold and mildew.

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

MYCOSTAT® CF is an end-use product that is intended to be used with registered alkaline copper wood preservatives. Prepare a use-solution (0.6 - 3.9% active) by mixing MYCOSTAT® CF with water and the copper product according to the attached mixing table. MYCOSTAT® CF can also be used alone or in combination with other EPA-registered organic and inorganic wood preservatives, provided that mixing is not inconsistent with the labeling of any product in the mixture. When used alone, prepare a 0.5-3.0% active use-solution of MYCOSTAT® CF in water. A closed-system must be used when preparing the use-solution and for delivery of the use-solution to the treatment vessel.

PRESSURE TREATMENT INSTRUCTIONS
Place the wood article to be treated into the pressure cylinder and seal unit. Treat the wooden articles using the pressure treatment procedures consistent with the equipment being used and standard treatment practices. Treatment conditions must be calibrated to yield a 0.05 to 0.2 lb/ft² (0.8 to 3.2 kg/m²) active retention in the treated article of didecyl dimethyl ammonium carbonate/bicarbonate. A final vacuum should be used during treatment process to remove any excess treatment solution from surface of treated wood article. Consult the MYCOSTAT® CF Technical Bulletin for additional information.

DIP TREATMENT
Stack the wood to be treated on a suitable holder and convey the stack into the treating solution making sure that the stack is completely immersed. Dip times should range from 30 seconds (individual pieces) up to 30 minutes (bundled wooden articles). Use a concentration of 0.5 - 3.0% active didecyl dimethyl ammonium carbonate/bicarbonate; the concentration should be customized to the degree of sapstain protection desired, which should be determined by an independent test on the intended species of wood.

SPRAY-BOX APPLICATION
For sapstain and mold protection only; a negative-pressure sprayerbox equipped with effective mist elimination may be used. Prepare the treating solution by adding 1 gallon MYCOSTAT® CF to 15 – 30 gallons of water. The concentration should be customized to achieve the degree of sapstain protection desired, which should be determined by an independent test on the intended species of wood. Mix thoroughly to ensure uniform composition. Application rates will vary according to wood species and moisture content, temperature, humidity, storage conditions and inoculum pressure. Ensure that the treatment conditions are such that the wood articles are uniformly covered with the treating solution. Monitor sprayerbox mixtures to ensure proper concentrations are being maintained.

NOTE: MYCOSTAT® CF cannot be used to treat wood intended for direct continuous salt water (marine) immersion. Treated wood must be marked accordingly. In addition, MYCOSTAT® CF is not approved for treating wooden articles that are used or intended for use in the packaging of food or feed.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE:
Do not store on side. Avoid creasing or impacting of side walls.

PESTICIDE DISPOSAL:
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these pesticides cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:
Plastic Container:
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

Metal Container:
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.
### Solution Mixing Table for Alkaline Copper and DDACarbonate (2 Component System)

<table>
<thead>
<tr>
<th>Solution Strength %</th>
<th>Component Balance Actives Basis (%)</th>
<th>To Mix 1000 Gallons Solution Combine following Gallons of</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Active CuO</td>
<td>DDACarbonate</td>
<td>9% Alkaline Copper</td>
</tr>
<tr>
<td>0.60%</td>
<td>0.400%</td>
<td>0.200%</td>
<td>28.1</td>
</tr>
<tr>
<td>0.65%</td>
<td>0.433%</td>
<td>0.217%</td>
<td>30.5</td>
</tr>
<tr>
<td>0.70%</td>
<td>0.467%</td>
<td>0.233%</td>
<td>32.8</td>
</tr>
<tr>
<td>0.75%</td>
<td>0.500%</td>
<td>0.250%</td>
<td>35.2</td>
</tr>
<tr>
<td>0.80%</td>
<td>0.533%</td>
<td>0.267%</td>
<td>37.6</td>
</tr>
<tr>
<td>0.85%</td>
<td>0.567%</td>
<td>0.283%</td>
<td>39.9</td>
</tr>
<tr>
<td>0.90%</td>
<td>0.600%</td>
<td>0.300%</td>
<td>42.3</td>
</tr>
<tr>
<td>0.95%</td>
<td>0.633%</td>
<td>0.317%</td>
<td>44.7</td>
</tr>
<tr>
<td>1.00%</td>
<td>0.667%</td>
<td>0.333%</td>
<td>47.1</td>
</tr>
<tr>
<td>1.10%</td>
<td>0.733%</td>
<td>0.367%</td>
<td>51.8</td>
</tr>
<tr>
<td>1.20%</td>
<td>0.800%</td>
<td>0.400%</td>
<td>56.6</td>
</tr>
<tr>
<td>1.30%</td>
<td>0.867%</td>
<td>0.433%</td>
<td>61.4</td>
</tr>
<tr>
<td>1.40%</td>
<td>0.933%</td>
<td>0.467%</td>
<td>66.2</td>
</tr>
<tr>
<td>1.50%</td>
<td>1.000%</td>
<td>0.500%</td>
<td>71.1</td>
</tr>
<tr>
<td>1.60%</td>
<td>1.067%</td>
<td>0.533%</td>
<td>75.9</td>
</tr>
<tr>
<td>1.70%</td>
<td>1.133%</td>
<td>0.567%</td>
<td>80.7</td>
</tr>
<tr>
<td>1.80%</td>
<td>1.200%</td>
<td>0.600%</td>
<td>85.6</td>
</tr>
<tr>
<td>1.90%</td>
<td>1.267%</td>
<td>0.633%</td>
<td>90.5</td>
</tr>
<tr>
<td>2.00%</td>
<td>1.333%</td>
<td>0.667%</td>
<td>95.4</td>
</tr>
<tr>
<td>2.10%</td>
<td>1.400%</td>
<td>0.700%</td>
<td>100.2</td>
</tr>
<tr>
<td>2.20%</td>
<td>1.467%</td>
<td>0.733%</td>
<td>105.2</td>
</tr>
<tr>
<td>2.30%</td>
<td>1.533%</td>
<td>0.767%</td>
<td>110.1</td>
</tr>
<tr>
<td>2.40%</td>
<td>1.600%</td>
<td>0.800%</td>
<td>115.0</td>
</tr>
<tr>
<td>2.50%</td>
<td>1.667%</td>
<td>0.833%</td>
<td>120.0</td>
</tr>
<tr>
<td>2.60%</td>
<td>1.733%</td>
<td>0.867%</td>
<td>124.9</td>
</tr>
<tr>
<td>2.70%</td>
<td>1.800%</td>
<td>0.900%</td>
<td>129.9</td>
</tr>
<tr>
<td>2.80%</td>
<td>1.867%</td>
<td>0.933%</td>
<td>134.9</td>
</tr>
<tr>
<td>2.90%</td>
<td>1.933%</td>
<td>0.967%</td>
<td>139.9</td>
</tr>
<tr>
<td>3.00%</td>
<td>2.000%</td>
<td>1.000%</td>
<td>144.9</td>
</tr>
<tr>
<td>3.10%</td>
<td>2.067%</td>
<td>1.033%</td>
<td>149.9</td>
</tr>
<tr>
<td>3.20%</td>
<td>2.133%</td>
<td>1.067%</td>
<td>154.9</td>
</tr>
<tr>
<td>3.30%</td>
<td>2.200%</td>
<td>1.100%</td>
<td>160.0</td>
</tr>
<tr>
<td>3.40%</td>
<td>2.267%</td>
<td>1.133%</td>
<td>165.0</td>
</tr>
<tr>
<td>3.50%</td>
<td>2.333%</td>
<td>1.167%</td>
<td>170.1</td>
</tr>
<tr>
<td>3.60%</td>
<td>2.400%</td>
<td>1.200%</td>
<td>175.2</td>
</tr>
<tr>
<td>3.70%</td>
<td>2.467%</td>
<td>1.233%</td>
<td>180.3</td>
</tr>
<tr>
<td>3.80%</td>
<td>2.533%</td>
<td>1.267%</td>
<td>185.4</td>
</tr>
<tr>
<td>3.90%</td>
<td>2.600%</td>
<td>1.300%</td>
<td>190.6</td>
</tr>
</tbody>
</table>
Technical Bulletin
Mycostat®CF
Wood Preservative for Pressure Treatment

1. Introduction

Mycostat®CF is a 50% concentrate solution of Didecyl dimethyl ammonium carbonate and Didecyl dimethyl ammonium bicarbonate. It is a waterborne preservative used to protect wood articles from the destruction by fungal decay, mold and mildew. Mycostat®CF is to be applied only by wood preserving plants to pressure treat wood articles.

Wood articles treated with Mycostat®CF are appropriate for use in above-ground, ground contact and fresh water contact applications and resist attack by rot and fungal decay. Mycostat®CF cannot be used to treat wood intended for direct continuous salt water (marine) immersion. Restrictions and limitations will be included on the treated wood end tag.

2. Description of the Preservative System

Mycostat®CF is an end-use product, intended for sale to wood treating plants. It can be used alone or in combination with other EPA-registered organic and inorganic wood preservatives, provided that mixing is not inconsistent with the labeling of any product in the mixture. Registered alkaline copper wood preservatives are particularly appropriate to use with Mycostat®CF to produce a copper-quat mixture.

Mycostat®CF is shipped as a 50 percent concentrate. It must be diluted to a working strength of from 0.6 to 3.9 % active by mixing Mycostat®CF with water and the copper product before application. When used alone, prepare a 0.5 to 3.0% active use-solution of Mycostat®CF in water. A mix table for half-percent increments in concentrate is attached.

3. Materials to be Treated

Mycostat®CF is used to pressure treat the following materials:

3.1 Dimensional lumber and timbers of the following sapwood species:

3.2 Dimensional lumber and timbers of the following heartwood species:
Douglas-Fir, Western Hemlock, Hem-Fir, Lodgepole Pine, Jack Pine and Redwood;

3.3 Maximum nominal size of 2-by-8 in all listed species for decking use only;

3.4 Southern Pine and Douglas-Fir plywood;
3.5  Round and sawn posts and building poles of Southern Pine, Ponderosa Pine, Red Pine, Douglas-Fir, Hem-Fir and Western Hemlock.

Minimum preservative retention levels are provided below in Table 1.

<table>
<thead>
<tr>
<th>End Use</th>
<th>Min. Activities$^1$ Retention of CuO + quat pcf (Kg/m$^3$)</th>
<th>Min. Activities$^1$ Retention of quat pcf (Kg/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above Ground - General Use</td>
<td>0.25 (4.0)</td>
<td>0.08 (1.32)</td>
</tr>
<tr>
<td>Decking &amp; Specialties Use - Above Ground</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sapwood Species Listed in Section 3.1</td>
<td>0.15 (2.4)</td>
<td>0.05 (0.80)</td>
</tr>
<tr>
<td>Heartwood Species Listed in Section 3.2</td>
<td>0.25 (4.0)</td>
<td>0.08 (1.32)</td>
</tr>
<tr>
<td>Ground &amp; Fresh Water Contact</td>
<td>0.40 (6.4)</td>
<td>0.13 (2.11)</td>
</tr>
<tr>
<td>Critical Structural Members</td>
<td>0.60 (9.6)</td>
<td>0.20 (3.20)</td>
</tr>
<tr>
<td>Wood Foundation Systems</td>
<td>0.60 (9.6)</td>
<td>0.20 (3.20)</td>
</tr>
</tbody>
</table>

Table 1 Note:
$^1$ Pounds of preservative per cubic foot of wood.

4. Wood Treatment

Plant Equipment: Treating plants shall be equipped with the thermometers, gauges, and recorders necessary to indicate and record accurately the conditions within the treating cylinder during all stages of treatment. Whenever it is practicable the material in any charge shall consist of pieces of the same species similar in form and size, moisture content and reactivity to treatment.

Marking: Lumber, timber, and plywood shall be marked to indicate the intended end use "above ground," "ground & fresh water contact" identifying both the preservative and the specified retention.

Manner of Treatment: The material shall be impregnated with preservative by a combination of such processes and under such conditions as will produce a satisfactory product for the use intended as described below:

Empty Cell Treatment: Prior to the introduction of preservative, material shall be subjected to atmospheric air pressure or to higher air pressures of the necessary intensity and duration. A final vacuum of not less than -77 kPa (22 in. Hg) shall be used.

Modified Full Cell Treatment: Prior to introduction of preservative, material shall be subjected to a vacuum of less than -77 kPa (22 in. Hg) (sea level equivalent). A final vacuum of not less than -77 kPa (22 in. Hg) shall be used.
**Full Cell Treatment:** Prior to introduction of preservative or during any period of condition prior to treatment, material shall be subjected to a vacuum of not less than -77kPa (22 in. Hg.) (sea level equivalent). A final vacuum of not less than 560 Kg/m² (22 in.) of mercury shall be used.

Initial Air Pressure or Vacuum shall be maintained while the cylinder is being filled with preservative. Pressure shall maintained until the desired volumetric injection has been obtained.

At the conclusion of the pressure period and after the cylinder has been emptied of preservative, a vacuum of not less than -77kPa (22 in. Hg.) at sea level may be created. This results in the material having drier surfaces upon removal from the cylinder.

5. **Results of Treatment**

**Preservative Retention:** Retentions shall be determined by wood assay or by plant gauge. Where retention by assay is specified, the retention shall be determined by extraction or analysis of the treated wood. Where retention by gauge is specified, the amount of preservative solution retained shall be determined from readings of working tank gauges or scales.

The minimum preservative retention levels to ensure adequate preservation are shown above in Table 1.

The vacuum-pressure treating process described in American Wood-Preservers’ Association (AWPA) Commodity Standard C1-00 and in the Processing and Treatment Standard of the Use Category System (UCS) shall be used to produce wood articles treated with Mycostat®CF.

6. **Installation and Application**

Wood articles pressure treated with Mycostat®CF are installed as preservative-treated lumber timbers and plywood in accordance with requirements of the applicable Code. The industry published installation instructions for wood and pressure-treated wood shall be strictly adhered to.

Wood articles pressure treated with Mycostat®CF are permitted in locations where wood is used and/or in locations required by the applicable Code to use building materials which are fungal decay resistant. The treated wood members are listed for use in above-ground and ground contact applications. Typical applications are listed below in Table 2.

Surface treat cut ends with appropriate registered preservative solution.

Locations requiring preservative-treated wood for fungal decay are listed in:
Section 2304.11  
Section 2304  
Section 2311  
Section 2306  
Sections R323, R324  
Sections 322, 323

*International Building Code*  
*Standard Building Code*  
*BOCA National Building Code*  
*Uniform Building Code™*  
*International Residential Code™ for One- and Two-Family Dwellings*  
*International One and Two Family Dwelling Code.*

Table 2  
Typical Applications  
for Mycostat®CF Pressure Treated Wood Articles

<table>
<thead>
<tr>
<th>Service Conditions</th>
<th>Typical Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above Ground</td>
<td>Decking, Rails, Spindles, Trim and Fascia, Framing, Flooring, Sill Plates, Trellises, Gazebos, Fencing</td>
</tr>
<tr>
<td>Ground &amp; Fresh Water Contact</td>
<td>Deck &amp; Dock Support Posts, Fence Posts</td>
</tr>
<tr>
<td>Critical Structural</td>
<td>Permanent Wood Foundations, Building Poles</td>
</tr>
</tbody>
</table>

Structural - The maximum load duration factor allowed for structural articles pressure-treated with Mycostat®CF shall be 1.6 in accordance with section 2.3 of the AFPA, National Design Specification for Wood Construction.