

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

CAUTION

Harmful If Swallowed. Avoid Contact With Eyes, Skin, Or Clothing. Wear Safety Goggles And Rubber Gloves When Handling. CONTAINS PETROLEUM DISTILLATE.

FIRST AID

If Swallowed, Do Not Induce Vomiting. Call Physician Immediately. In Case Of Contact, Immediately Flush Eyes Or Skin With Plenty Of Water. Get Medical Attention If Irritation Persists.

ENVIRONMENTAL HAZARDS

This Product Is Toxic To Fish. Do Not Apply Directly To Water. Do Not Contaminate Water By Cleaning Of Equipment Or Disposal Of Waste.

PHYSICAL OR CHEMICAL HAZARDS

Do Not Use, Pour, Spill or Store
Near Heat or Open Flame

Directions For Use

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

STORAGE AND DISPOSAL

Pesticide Disposal

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions, must be disposed of according to applicable Federal, State, or Local procedures.

Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State or Local procedures.

**Formula 645
Penetrant Sealer**

ACTIVE INGREDIENT:

COPPER-8-QUINOLINOLATE 1%

INERT INGREDIENTS: 99%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Left Panel For Additional Precautionary Statements.

FOR COMMERCIAL USE ONLY

Net Volume
55 U.S. Gallons Liquid

EPA REG. NO. 11265-10
EPA EST. NO. 33766-IN-01



Maag, Inc.
Seymour Chemicals
P.O. Box 2408
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COMPOSITION AND USE DIRECTIONS

Formula 645 Penetrant Sealer is a water repellent formulation of solubilized copper-8-quinolinolate for the control of fungi and on wooden articles that are used or intended for use in packaging, transporting or holding raw agricultural products. Formula 645 Penetrant Sealer is approved for this use in the Federal Register under Section 121.2556.

Copper-8-quinolinolate is an approved Standard of the American Wood Preservers' Association (Standard P-8-64), and of the American Association of Railroads (Standard 17-2-9). It is the mandatory wood preservative treatment of the following Military standards: MIL-STD-1223J (Wheeled Vehicles), and MIL-R-10932E (Prefabricated Refrigerators).

PHYSICAL PROPERTIES

Active Ingredient: 1% Copper-8-quinolinolate
Flash Point: 104°F CLOSED CUP
Color: BROWN - GREEN LIQUID

DIRECTIONS FOR USE: To treat wooden items such as bins, boxes, pallets, etc., prepare the treating solution as listed below:

Formula 645 Penetrant Sealer 1 part by volume
Mineral Spirits* 3 parts by volume

The solution can be prepared in a dipping tank or open head 55 gallon drum. Immerse the item to be treated for a period of 5 to 8 seconds, remove and drain off excess solution. Then air dry for a minimum of 48 hours, or until ALL SOLVENT HAS EVAPORATED.

To treat lumber in accordance with MIL-R-10932E and MIL-STD-1223J do not dilute Formula 645 Penetrant Sealer with the solvent. Use as it comes from the drum. 1% copper-8-quinolinolate is required in the treating solution.

HANDLING: Since Formula 645 Penetrant Sealer contains mineral spirits, proper precautions should be taken to insure adequate ventilation when handling. It should not be applied in the presence of heat or open flame. Smoking during application should not be permitted in the area. Suitable work clothing, gloves and safety glasses should be worn during the application.

*Mineral Spirits is a low-cost solvent having the following specifications:

API Gravity: 48 to 50
Flash Point: 104°F CLOSED CUP
Initial Boiling Point: 310 to 314°F
End Point: 380 to 394°F

FUNCTION AND APPLICATIONS

Containing copper-8-quinolinolate as the active ingredient, Formula 645 Penetrant Sealer is a ready-to-use, water-repellent preservative formulated to prevent the growth of fungi on interior structural materials inside food processing plants.

Formula 645 can be brushed or sprayed onto wood, concrete blocks, tile and masonry used for walls, ceilings, floors and other structural materials which support the growth of unsanitary mold or mildew.

Formula 645 is a penetrant sealer. It is formulated to penetrate deep beneath the surface of wood and masonry in order to kill deep-seated infections or fungi and prevent their regrowth.

An antifungal penetrant sealer is defined as a surface coating which prevents fungal growth, impregnates the material to be treated, and leaves no residual film which can be removed by ordinary wear. Consequently, this product cannot peel or flake off like a paint film. As a result, Formula 645 has been accepted for the treatment of items such as wood rail beams, and the ceiling areas above the beams.

A single treatment of Formula 645 will keep treated areas mold-free for periods up to several years. Copper-8 will not leach out of wood or concrete under normal plant operating conditions, and it is nonvolatile. Treated surfaces can be washed with alkaline cleaners in order to remove dirt or other accumulations without removing the treatment. Due to its excellent mold control, washing can be reduced in a general maintenance program.

Formula 645 is sold in 55 gallon drums as a ready-to-use solution. Coverage will generally exceed 400 square feet per gallon, depending on the porosity of the treated surface.

NOTE: Food or food products equipment should be removed or adequately covered to prevent accidental food contamination during the application.

Seller makes no warranty, expressed or implied, concerning the use of these products other than as indicated on the label. Buyer assumes all risk of use and/or handling of these materials when use and/or handling is contrary to label instructions.

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