PRODUCT DATA SHEET

NEXGEN®

A synergistic wood-protectant fungicide for control of sapstain and mold in freshly sawn wood

PRODUCT DESCRIPTION AND BASIC USE

NeXgen® represents the next generation of high-efficiency sapstain control products. Developed in the laboratories of ISK Biocides, Inc., NeXgen brightens wood while providing superior control of sapstain and mold fungi. For over twenty years, NeXgen has consistently outperformed competitive products (such as Workhorse®, NP-1®, Busan® 1009, and other commercially-available anti-sapstain formulations) - often at equal or even lower rates.

NeXgen is a mixture of two highly-efficient fungicides: chlorothalonil and methylene bis thiocyanate (MBT). Chlorothalonil gives superior mold control and is quickly bound to wood, minimizing leaching. MBT, a potent inhibitor of sapstain fungi, quickly penetrates and protects wood.

NeXgen is compatible with, and may be used with, commonly-used water-reducible insecticides, such as X-Lance[®], for insect control.

DIRECTIONS FOR USE

When properly applied to freshly sawn lumber, NeXgen is effective as a protective fungicide against molds and staining organisms. NeXgen is formulated with a special surfactant system which allows easy resuspension even after the solution is allowed to stand for several days.

Freshly-cut wood should be treated as soon as possible. Effective control requires complete coverage of the wood surface prior to development of fungal organisms. Wood which has been colonized by mold or sapstain fungi prior to treatment will not be protected.

This product may be used as a supplemental surface fungicide on dry or partially seasoned wood to prevent stain and mold during storage, transport or holding in concentration yards.

Do not store NeXgen in direct sunlight or where temperatures in excess of 100° F occur for more than 30 days.

NeXgen can be used on wood products for use in making particle board.

NeXgen will not control enzymatic gray stain.

MIXING DIRECTIONS

During charging of tanks and when potential for splashing or mist generation is possible, wear appropriate Personal Protective Equipment (PPE). See the product label for the appropriate PPE.

Do not use borax with NeXgen. Do not use NeXgen in any system which is at an alkaline pH (greater than or equal to 7.0).

Add the required amount of NeXgen and NeX-Brite slowly to water in the tank, and mix well while filling. Continuously agitate the mixture during treatment. It is recommended that the NeXgen tank mix be continuously agitated. Movement of lumber through an across-the-chain dip vat normally provides sufficient agitation during treatment.

BULK DIP VATS - For bundles of lumber that are to be treated in a dip tank or vat, add at the rate of 1/2 to 1.5 gallons NeXgen and 1/4 gallon of NeX-Brite (1:400) to 100 gallons of vat water. During dipping, boards should be loosely bundled to allow maximum penetration of the treatment material.

If the dip vat solution is allowed to stand undisturbed for 24 hours or more, the solution will need to be agitated. For best results, use continuous agitation. Bulk dip vats should be thoroughly cleaned at least once a year and coated with a corrosion resistant material to minimize iron stains and ensure the brightest lumber.

NON-BULK VATS – For individual boards which are treated in across-the-chain vats (non-bulk vats), add at a rate of 0.5 to 1.5 gallons of NeXgen and 1/3 gallon of NeX-Brite (1:400) to 100 gallons of vat water.

<u>LOW-VOLUME SPRAY MACHINES</u> – For individual boards which are treated in low-volume spray machines, add ¼ to 1 gallon of NeXgen to 20 gallons of water. Smooth-surfaced lumber normally retains only about one-half as much fungicide solution as rough-cut wood and, therefore, the higher rates are necessary to deposit the proper amount of fungicide on the wood. Some agitation is required in the work tank to maintain a uniform suspension.

TANK CONVERSION

Tank conversion is best accomplished by emptying previous formulations and removing all debris present as tank residue. Protecting the tank with a corrosion resistant coating is recommended prior to charging with NeXgen. For assistance during tank conversion, please contact your ISK Biocides, Inc. representative.

MONITORING SOLUTION STRENGTH

Test kits are available to accurately measure the solution strength of NeXgen. Solutions should be monitored on a daily basis. The NeXgen test kit directly measures active ingredient.

TREATING PALLETS FOR MOLD

For best control, pallets must be mold free when treated. If the pallets can't be built and treated quickly enough to prevent mold growth, the components should be treated. Pallet components may require a longer dip time of up to 5 minutes. For treating pallets or pallet stock, the NeXgen dilution should range from a minimum of 1:200 for mild conditions up to 1:65 for severe applications.

TYPICAL USE RATES

NeXgen is a concentrate which must be diluted with water prior to use (refer to table below). The dilution rate will depend on mill location, wood characteristics, and application method. Lower rates can be used when the climate is cool or control is needed only for short periods. Increased solution concentration is required under more severe conditions or when longer control is desired.

NeX-Brite, a wood brightener, corrosion inhibitor, performance enhancer, and iron stain inhibitor, should be used with NeXgen.

	Dip or Across-the-Chain Vats		Low-Volume Spray Machines	
Stain Conditions	NeXgen	NeX-Brite®	NeXgen	NeX-Brite
Low	1:200	1:400	1:80	1:300
Moderate	1:125	1:400	1:40	1:300
Severe	1:75	1:400	1:20	1:300

If NeXgen-treated lumber is to be exported, a minimum dip solution strength of 1:100 or 1% is recommended. If lumber will be shipped from the Northwest U. S. to Europe or Africa, a 1.5% solution is recommended.

HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN

Do not handle until all safety precautions have been read and understood. See product label and Safety Data Sheet for hazards and precautions. Follow label precautions and use appropriate Personal Protective Equipment (PPE).

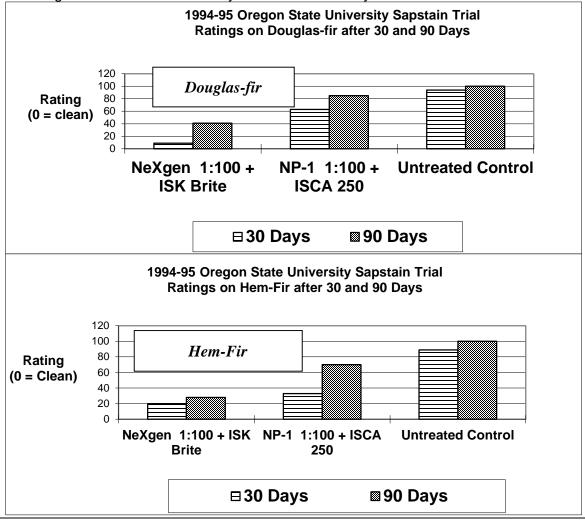
Avoiding contact with NeXgen and treated, wet wood is essential for personal protection. Workers involved in the preparation of treating solutions, those who actually treat the wood, and those individuals that handle wet or freshly treated lumber should wear required PPE.

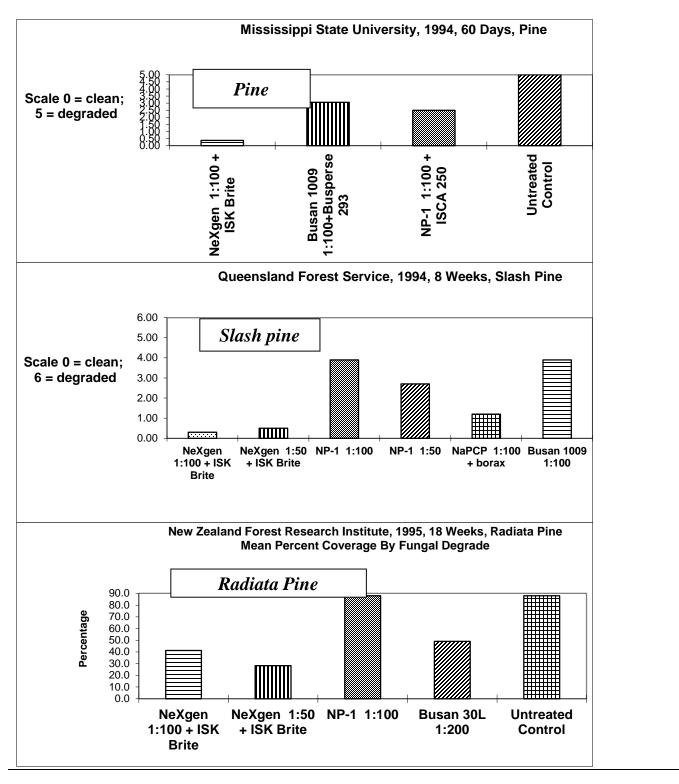
Employee training on proper handling procedures is recommended. Please contact your ISK Biocides, Inc. representative for more information

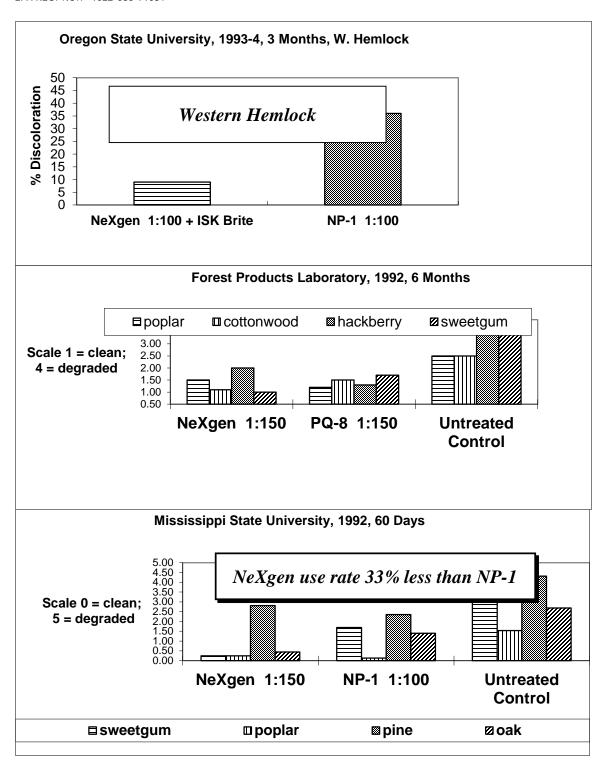
For product emergencies, call Chemtrec toll free at 1-800-424-9300.

INDEPENDENT TEST RESULTS

NeXgen has been evaluated by independent testing laboratories around the world for several years. The following tables summarize efficacy data from laboratory and field tests







TECHNICAL DATA					
PHYSICAL DATA		INGREDIENTS			
Appearance	Creamy white to light gray flowable liquid	Chlorothalonil (tetrachloroisophthalonitrile)	14.5%		
Flash Point	Not applicable. Will not flash.	Methylene bis-thiocyanate	14.7%		
Weight/Gallon	9.5 lbs/gallon @ 60° F.	Inert Ingredients	70.8%		
Specific gravity	1.14 @ 60° F	Total	100.0%		
Corrosivity	Not recommended for use in unlined dip vats or tanks.	*Contains 165 grams per liter or 1.37 pounds per U.S. gallon of chlorothalonil and 167 grams per liter or 1.39 pounds per U.S. gallon of methylene bis-thiocyanate.			
рН	3.5 - 6.5				

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants to those persons lawfully acquiring title to this product that at the time of the first sale of this product by seller this product conformed to its chemical description and that it was reasonably fit for the purposes stated on the product label when used both in accordance with the Directions for Use appearing on the product label and under normal conditions of use. Buyers and users of this product assume the risk of all loss or damage from use or handling of this product that results from their failure to read and comply with the Directions for Use of this product, which appear on the product label. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. Unless expressly prohibited by state law, the liability of seller for any breach of warranty shall not exceed the purchase price of the product as to which a claim is made.

All information contained in this bulletin is furnished by ISK Biocides, Inc. free of charge for your evaluation and is for informational purposes only. No guarantee, expressed or implied, is made by ISK Biocides, Inc. as to the results to be obtained based upon your use of the information. ISK Biocides, Inc. expressly disclaims any liability, foreseen or unforeseen, arising out of your use of the information. This information should not be treated as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Nothing contained herein is to be construed as permission or as a recommendation to infringe any patent or trademark or violate any law or regulation.

NeXgen®, NeX-Brite®, and X-Lance® are registered trademarks of ISK Americas Incorporated. NP-1® is a registered trademark of Koppers Company, Inc. Busan® is a registered trademark of Buckman Laboratories, Inc.