

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 25 2013

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Abigail Trueblood The Dow Company 1803 Building Midland, MI 48674

Subject:

EPA Registration Number: 464-8125 Application Date: August 21, 2012 Receipt Date: August 22, 2012

Dear Ms. Trueblood:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide (FIFRA), as amended, is acceptable with comments.

### **Proposed Amendment**

Restoring 2 Previously Approved Uses

### **General Comments**

A stamped label is enclosed for your records.

Submit 3 copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If you have further questions concerning this letter, then please contact me by telephone at (703) 308-6416 or by e-mail at <a href="mailto:campbell-mcfarlane.jacqueline@epa.gov">campbell-mcfarlane.jacqueline@epa.gov</a> or Stacey Grigsby by telephone at (703) 308-6440 or by email at <a href="mailto:grigsby.stacey@epa.gov">grigsby.stacey@epa.gov</a>. When you are submitting information or data in response to this letter, send a copy of this letter to accompany the submission in order to facilitate processing.

Sincerely,

Product Manager 34

Regulatory Management Branch II Antimicrobials Division (7510P)

Enclosure: stamped label

# FILMGUARD™ IPBC 20 Fungicidal Agent

For industrial use. For control of mildew on paint and stain films, cordage, textiles, paper coatings, plastics and plastic coatings, fungal organisms in adhesives, aqueous metal working fluids and inks, household,industrial and institutional products, leather, sapstain on freshly sawn wood and decay protection in wood and millwork. For surface mold and mildew prevention on cellulosic materials, wallboard, concrete, masonry and other building materials.

### ACTIVE INGREDIENT:

3-lodo-2-propynyl butyl carbamate	20%
OTHER INGREDIENTS	%08
TOTAL	100%
Contains 1.73 lbs. of active ingredient per gallon	

E.P.A. Registration No. 464-8125

### E.P.A. Est. XXXX-XX-XX

### KEEP OUT OF REACH OF CHILDREN WARNING

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS PRECAUTIONARY STATEMENTS

WARNING. Causes severe skin irritation. Harmful if swallowed, inhaled or absorbed through the skin. May cause severe eye irritation. Do not get on skin, in eyes or on clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators must wear

- Goggles or faceshield
- Long-sleeved shirt and long pants
- Chemical resistant gloves (nitrile or butyl)
  - Chemical resistant shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry

User Safety Instructions:

Users must

- drenched or heavily contaminated with this product's concentrate. Discard clothing and other absorbent materials that have been Do not reuse them.
  - Users must wash hands before eating, drinking, chewing gum,
    - User must remove clothing/PPE immediately if pesticide gets using tobacco or using the toilet
- inside. Then wash thoroughly and put on clean clothing.
- Users must remove PPE immediately after handling the product. As soon as possible, wash thoroughly and change into clean clothing.

# **FIRST AID**

 Rinse skin immediately with plenty of water for 15–20 minutes Call a poison control center or doctor for treatment advice CLOTHING

Take off contaminated clothing

IF ON SKIN OR

- Call a poison control center or doctor immediately for treatment advice IF SWALLOWED
  - Have affected person sip a glass of water if able to swallow.
- Do not induce vomiting unless told by a poison control center or doctor.
  - Do not give anything by mouth to an unconscious person
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, Move person to fresh air.
- Call a poison control center or doctor for further treatment advice
- Hold eye open and rinse slowly and gently with water for 15–20 minutes. IF IN EYES
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

### HOT LINE NUMBER

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Exposure to high concentrations via inhalation may result in the inhibition of acetylchlolinesterase and produce related symptoms.

# **ENVIRONMENTAL HAZARDS**

Discharge Elimination System (NPDES) permit and the This product is toxic to fish and aquatic organisms. Do not ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product sewage treatment plant authority. For guidance contact discharge effluent containing this product into lakes, to sewer systems without previously notifying the local your State Water Board or Regional Office of the EPA

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Store in original container in a cool place. Protect from excessive heat.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. If these wastes 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: Nonrefillable Container: Do not reuse or refill this container. Triple rivinse or pressure rivinse container for equivalent promptly after emptying. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or, by other procedures approved by state and local authorities

# LIMITED WARRANTY AND DISCLAIMER

ACCEPTEDE Represents that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions.

ACCEPTE PARAPRESSIV IN LIBED OF ONE STATE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE MADE WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR MINITED REPRESENTATIONS AND WARRANTIES.

See Directions For Use label adjacent to this label

# THE DOW CHEMICAL COMPANY

Produced For Dow

pesticide, registered under Midland, Michigan 48674 U.S.A. (989) 636-4400

® TM Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow EPS 11/20/12 • RA2620

Under the Federal Insecticida, Fungicida, Rodenticide Act as amended, for the

ET CONTENTS: XXXX gallons NET WT:: XXX Ib / XXX kg EPA Reg. No. 414-8125

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### **FILMGUARD IPBC 20 Fungicidal Agent**

Directions For Use label to be used with FILMGUARD IPBC 20 Fungicidal Agent front panel label.

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400. Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This formulation is not cleared by the Federal Food, Drug and Cosmetic Act for use in manufactured food grade adhesive, paper and paper board products and paper coating. Do not use in the manufacture of food grade adhesive, paper, paperboard products or paper coatings which contact food, Do not apply this product in a way that will contact workers or other persons.

Adhesives FILMGUARD IPBC 20 Fungicidal Agent is used as an additive to non-medical, non-food FILMGUARD IPBC 20 Fungicidal Agent is used as an additive to non-medical, non-food use natural and synthetic adhesive formulations and caulks to prevent the growth of fungal organisms in the material both in the wet state and in the dry film of the finished product. Use levels are between 0.1-1.25% wet formulation weight. This product is added toward the end of the production cycle with good agitation to ensure a uniform distribution. For example, to inhibit the growth of mildew on a latex-based wall cover adhesive for a non-food area, add 1.0% (10 lbs of FILMGUARD IPBC 20 Fungicidal Agent per 1000 lbs of latex-based adhesive formulation) of this product to the latex-based

formulation.

Aqueous Metalworking, Cutting, Cooling & Lubricating Concentrates

To inhibit the growth of fungi in aqueous metalworking, cutting, cooling and lubricating concentrates, add an amount that will give up to 5,000 ppm in the diluted fluid. The amount required in the concentrate will depend on the end use dilution. For example, if the desired level of this product in the diluted fluid is 500 ppm, and the end use dilution of the fluid is 5%, then a 1.0% concentration of this product is required in the concentrate (500 ppm/0.05 = 10,000 ppm or 1.0%).

Aqueous Metalworking, Cutting, Cooling & Lubricating Fluids

To inhibit the growth of fungi in aqueous metalworking, cutting, cooling & lubricating fluids add up to 5,000 ppm (0.5% v/v) of this product to the diluted fluid (0.5 gallons per 100 gallons of solution or approximately 5 liters per 1000 liters). Add this product to the fluid at the time it is prepared (diluted) or to the reservoir (sump) containing the fluid after it is put into use. If it is added to the reservoir, circulate the fluid to ensure mixing.

Cordage
FILMGUARD IPBC 20 Fungicidal Agent is used as a mildewcide in both aqueous and FILMGUARD IPBC 20 Fungicidal Agent is used as a mildewcide in both aqueous and solvent based process formulations which coat cordage. Use levels of this product will range from 0.1-5% of the process formulations used in the process of these cordages. This product is added to the process formulation at the end of the production cycle with good aglitation to prevent possible mechanical losses and to ensure a uniform distribution. As an example, to inhibit the growth of mildew on cordage intended for a non-food area, add 2.5% (25 lbs FILMGUARD IPBC 20 Fungicidal Agent per 1000 lbs. of process formulation) of this product to the process formulation.

Textiles FILMGUARD IPBC 20 Fungicidal Agent is for use as a mildewcide in both aqueous and solvent-based coatings and dyes which are used in textile material processing. End use applications of these materials are: fibers and backings for use in canvas and cordage, drapes and shower curtains. Not to be used in fabrics intended for human wear or direct skin contact. This product is to be solubilized or stirred in the dye bath or polymer coating pan to minimize mechanical losses and ensure a uniform distribution of the product. Use levels of 0.1-5% by weight of the total processing formulation are adequate to prevent fungal growth. As an example, to inhibit the growth of mildew on cotton canvas intended for a non-food area add 2.5% (25 lbs. FILMGUARD IPBC 20 Fungicidal Agent per 1000 lbs. dye bath) of this product to the dye bath formulation.
FILMGUARD IPBC 20 Fungicidal Agent is used in aqueous-based ink solutions for protection of these solutions against attack by fungal organisms. Add this product at the end of the production cycle with good agitation. This product will impart protection when used at levels of 0.05-3.0% of active ingredient based on the formula weight. Textiles FILMGUARD IPBC 20 Fungicidal Agent is for use as a mildeworde in both aqueous

used at levels of 0.05-3.0% of active ingredient based on the formula weight. Paints And Stains
FILMGUARD IPBC 20 Fungicidal Agent, used in solvent and waterborne paints and stains, will inhibit the growth of mildew. Addition is made at the end of the manufacturing process and allowed to mix long enough to be adequately dispersed and is not to be added to hot paint. Use levels for protection against mildew on painted surfaces are 0.5-2.4% by weight in we to paint. For example, house paint with a wet density of 10 lbs. per gallon would use 5-24.0 lbs. of this product per 100 gallons of wet paint. Where the climate is severe and mildew growth is a major problem for painted surfaces, more would be required, as much as 4.0% by weight in the paint. For interior paint use, approximately half the exterior concentrations must be used, 0.2-1.2% by weight in the paint. Appropriate levels are best determined by field trials.

Plastics And Plastic Coatings
FILMGUARD IPBC 20 Fungicidal Agent is used to prevent surface mildew growth on plastic items, such as shower curtains, cable and wire insulation, polymer furniture, filter media, and sun umbrellas. Intended plastics include polymers: PVC, polyurethanes, elastomers and rubbers, neoprene, styrene compounds and polyolefins. Use levels of 1.5-5.0% by weight of the plastic are adequate. Disperse this product in the plasticizer or color concentrate before it is incorporated into the resin to ensure a uniform distribution. Do not use this product if the heat of processing is above 350° F for prolonged periods. This product is not to be used in a plastic that will be in contact with food or in medical device applications.

### Produced For:



### THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

(989) 636-4400

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Paper Coatings
FILMGUARD IPBC 20 Fungicidal Agent is used as a mildewcide in both aqueous and solvent-based coatings which are applied to paper and cardboard substrates. This product is used to prevent mold and mildew from growing on the following products: corrugated cardboard or soap wrappers, wall covers, non-food contact packaging materials, and non-food contact paper tapes. Use levels of this product range from 0.1-3.75% of this product by weight. This product is added at the end of the production cycle with good agitation to prevent possible mechanical losses and to ensure uniform distribution. As an example, to inhibit growth of mildew on corrugated cardboard intended for non-food packaging, add 2.5% (25 lbs. FILMGUARD IPBC 20 Fungicidal Agent per 1000 lbs. coating material) of this product to the coating material formulation.

Wood Preservation
FILMGUARD IPBC 20 Fungicidal Agent is a liquid designed for use as a wood preservative for FILMGUARD IPBC 20 Fungicidal Agent is a liquid designed for use as a wood preservative for use in above ground applications. All use levels are in percentage by weight and refer to this product. Dosage ranges are given for the various applications to indicate the approximate levels for a particular application. Exact levels of use must be determined by field trials. Do not use at rates higher than those indicated on this label.

FILMGUARD IPBC 20 Fungicidal Agent is applied from solvent solutions or aqueous dispersions to new lumber, plywood, particle board, millwork, etc. to prevent the growth of mildew, sapstain and wood rot on these substrates. This product is for use on wood in above

mildew, sapstain and wood rot on these substrates. This product is for use on wood in above ground use only.

Treating solutions are prepared by diluting this product in alcohols or aromatic solvents or by dispersion in water. The use level range of 0.5-6.0% of this product depends upon the severity of conditions for end use and the extent of time that protection is required. For freshly sawn lumber, a concentration of 1.0% of this product is a starting level. A on minute dip at ambient temperatures in a solution or aqueous dispersion containing 1.0% of this product is normally adequate to control the development of mildew and sapstain organisms on the lumber, Because of the great variation in susceptibility of fresh sawn lumber relating to the type of wood, sawing and storage techniques, conditions of humidity, method of treatment, etc. it is necessary to carry out field tests to determine the most appropriate means of application and the optimum concentration of this product to be used within the range specified. For best results, lumber must be treated within twenty-four hours after it is sawed. Completely immersion and removal, and to minimize spillage. Clean the vat by emptying and rinsing with suitable solvent or by use of a detergent solution. To add additional product while treating, first prepare the proper solution or emulsion in a separate container (of wood, plastic or stainless steel construction) and add to the treating vesture container (of wood, plastic or stainless steel construction) and add to the treating vesture.

prepare the proper solution or emulsion in a separate container (of wood, plastic or stainless steel construction) and add to the treating vessel.

After treatment stack lumber in a properly maintained seasoning yard with good drainage so that no water will accumulate in any area. Keep the yard free from weeds and vegetation, which hold moisture and promote growth of decay and stain producing fungi. Remove all debris and lumber scraps from the area. A properly laid out yard takes advantage of prevailing winds to permit good air circulation. Main alleys must be at least 16 feet wide. Sufficiently elevate stack foundations to permit ready access of air to the pile and allow water to drain off quickly.

Millwork
This product is for use in millwork, including door and window frames, exterior siding, composite board, plywood and other construction lumber when it is important to prevent the growth of mildew, sapstain and wood rot organisms on these materials.

For applications of this type, this product is applied by dipping, brushing, spraying or pressure treatment. Use levels are in percentage by weight and refer to this product. Levels of 0.5% are used for mildew control. To control rot and decay, do not use less than 1.0% as a concentration. Use this product in solution in a suitable solvent. Concentrations up to 4.0% are used depending upon the condition of the wood, the nature of the intended exposure, and the

length of protection desired. When brushing, a single coat will usually suffice if the solution is applied liberally. This also pertains to spraying. Use of this product is not for wood surfaces which come in contact with food. Surfaces in continuous contact with skin are to be coated with a varnish or lacquer after treatment with this product. This product is also used as an additive to stains to be applied to such materials as exterior siding, decks, lawn furniture, etc. in order to prevent the growth of fungal organisms. Levels between 1.0-4.0% of this product by weight of the final formulation are added to these materials.

Leating ITI MOUARD IPBC 20 Fungicidal Agent protects leather from mold and mildew during storage, transport and processing of wet leather stock, such as pickled, vegetable, chrome, alternative metal, or metal-free hides and skins. All use levels are in percentage by weight and refer to this

product. For process hides and skin the use level to prevent microbial growth is 0.025-0.4% (250-4000 For process hides and skin the use level to prevent microbial growth is 0.025-0.4% (250-0400) ppm) based on white lime stock weight. Add directly or in diluted form (prepared with good agitation by adding one part FILMGUARD IPBC 20 Fungicidal Agent to four parts water) to treat pickling or tanning liquor and rinse water in post-tanning re-float. For tanned leather (pickle, wet-blue, or any tannage), a solution prepared with 0.1-1.0% (1000-10.000 ppm) is applied with brush or roller coating process to treat the entire pallet of stacked leather prior to shrink-wrapping, including the ones inside the plastic bags, from microbial growth

10,000 ppm) is applied with brush or roller coating process to uses the children process in the state prior to shrink-wrapping, including the ones inside the plastic bags, from microbial growth during storage.

For fat-liquoring or in fresh float an application rate of 0.025-0.2% (250-2000 ppm) based on the split and shave weight of feather being processed to prevent microbial growth.

For preservation of treated paste, fat-liquor or finishes FILMGUARD IPBC 20 Fungicidal Agent is mixed with good agitation at a concentration of 0.1-0.25 w/% (1000-2500 ppm).

Surface Mold and Mildew Control on Cellulosic Materials, Wallboard, Concrete, Masonry and Other Bullding Materials

FILMGUARD IPBC 20 Fungicidal Agent is used to treat cellulosic building materials including, paper, cardboard, wood, playwood, particle board, oriented strand board (OSB), composite wood structural components; and wallboard, concrete, masonry (including aggregate block, brick and stone) and other building materials to inhibit or prevent the growth of surface mold when the materials are subjected to moist or wet environments. Before applying this product, visible mold growth must be removed, and conditions favorable to mold growth must be identified and corrected. This product is compatible with, and may be mixed with wood protection products containing disodium octaborate tetrahydrate (DOT). The combination of such DOT containing products with FILMGUARD IPBC 20 Fungicidal Agent may be more efficacious than FILMGUARD IPBC 20 Fungicidal Agent may be more efficacious than FILMGUARD IPBC 20 Fungicidal Agent may be more efficacious than FILMGUARD IPBC 20 Fungicidal Agent may be more efficacious than FILMGUARD IPBC 20 Fungicidal Agent is intended to be mixed. When used on the interior sides of living spaces the treated surfaces must be subsequently covered with overlayment materials such as wallpaper, paint, or similar coatings. DO NOT use on food- contact surfaces, or in the interior of buildings engaged in food processing or food handling.

Surface Mold and Mildew Control on Celluic Masonry and Other Building Materials Preventative Treatment

To inhibit surface mold and mildew growth on c To inhibit surface mold and mildew growth on or masonry and other construction materials for nev FILMGUARD IP8C 20 Fungicial Agent into water gallons of water (2.8 oz per gallon of water) as sprayer, low-pressure hand-wand or backpack surfaces to be protected (approximately 500 squevenly wet without runoff or pooling. When used on interior surfaces, permit treated su or affixing overlayment materials, such as siding, Repeat the application of this product as necessi directions provided below for Remedial Treatment year or longen; will provide effective control. If or

directions provided below for Remedial Treatment year or longer) will provide effective control. fir the cause and correct the problem prior to re Fungicidal Agent. Mold may recur in conditions water, or hidden water leaks. Remedial Treatment FILMGUARD IPBC 20 Fungicidal Agent must be

emediation or water damage restoration program i Periodic monitoring and inspection of conditi

Periodic monitoring and inspection of condition in Periodic monitoring and inspection of conditionisture ingress and high relative humidity. Effecting repairs as necessary to eliminate conditionisture ingress and high relative humidity. Effecting repairs as necessary to eliminate conditionistic monitoristic monitoristi monitoristi monitoristi monitoristi monitoristi monitoristi m

SMall Areas - Total Surface Area Affected Less i Wood and Composite Wood Surfaces Prior to applying FILMGUARD IPBC 20 Fungicic one of the following or another preferred professio Method 1: Wet vacuum (in the case of porous marcmain in the material but will not grow if the mate Method 2: Damp-wipe surfaces with plain water product.

Method 3: High-afficiency particulate air (HEP, thoroughly dried, Dispose of the contents of the H Minimum personal protective equipment to be worr N-95 respirator and gogglesseye protection\*\* Wallboard (drywall and gypsum board)
Prior to applying FILMGUARD IPBC 20 Fungicie

high-efficiency particulate air (HEPA) vacuum afte Dispose of the contents of the HEPA vacuum in v

Dispose of the contents of the HEPA vacuum in v Minimum personal protective equipment to be wo respirator and goggles/eye protection\*\*

Other Construction Materials (Concrete, Masor Method 1: Wet vacuum (in the case of porous ma remain in the material but will not grow if the mate remain in the material but will not grow it the mater Method 2. High-efficiency particulate air (HEP, thoroughly dried, Dispose of the contents of the H Special procedures and training are required for r square feet. Consult guideline for remediation of Quality Association (www.iaqa.org) and the I (www.epa.gov). An excellant reference is the publication "Guidelines on Assessment and Reme publication 'Guidelines on Assessment and Reme An excellent guide for professional mold remer Inspection, Cleaning and Restoration Certificatio reliable remediation and restoration techniques practical elements of water damage restoration. W have been exposed to water in excess of 24 h microbial growth that may be hidden. In such microbial growth that may be hidden. In sucl remediation plan must be prepared that provi documentation and monitoring of the remediation guidance for such a plan. In the context of such Agent can be used on materials to be removed a where mold inhibition is indicated. The Standard and contaminated organic material removed prior Agent. Before using FILMGUARD IPBC 20 Fungi you must be knowledgeable of these guidelines a you must be knowledgeable of uses galactines at In the absence of access to the guidance and sta the following information taken from U.S. EPA's Commercial Buildings (March 2001). These guid material affected by water damage and/or moguidelines; some professionals may prefer other remediation steps prior to application of FILMGUA

### gicidal Agent

s used as a mildewcide in both aqueous and solvent-er and cardboard substrates. This product is used to the following products: corrugated cardboard or soap t packaging materials, and non-food contact paper om 0.1-3.75% of this product by weight. This product e with good agitation to prevent possible mechanical on. As an example, to inhibit growth of mildew on d packaging, add 2.5% (25 lbs. FILMGUARD IPBC 20 material) of this product to the coating material

a liquid designed for use as a wood preservative for I levels are in percentage by weight and refer to this e various applications to indicate the approximate levels of use must be determined by field trials. Do

nt is applied from solvent solutions or aqueous rticle board, millwork, etc. to prevent the growth of substrates. This product is for use on wood in above

ig this product in alcohols or aromatic solvents or by if 0.5-6.0% of this product depends upon the severity f time that protection is required.

on of 1.0% of this product is a starting level. A one on of 1.0% of this product is a starting level. A one olution or aqueous dispersion containing 1.0% of this is development of mildew and sapstain organisms on in susceptibility of fresh sawn lumber relating to the iques, conditions of humidity, method of treatment, ests to determine the most appropriate means of 1 of this product to be used within the range specified, within twenty-four hours after it is sawed. Completely within twenty-four hours after it is sawed. Completely th, and the treating vat designed to permit easy spillage. Clean the vat by emptying and rinsing with a solution. To add additional product while treating, first in a separate container (of wood, plastic or stainless vessel.

ly maintained seasoning yard with good drainage so Keep the yard free from weeds and vegetation, which ay and stain producing fungi. Remove all debris and laid out yard takes advantage of prevailing winds to ust be at least 16 feet wide. Sufficiently elevate stack ntained seasoning yard with good drainage so to the pile and allow water to drain off quickly.

ng door and window frames, exterior siding, composite umber when it is important to prevent the growth of

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In Cellulosic Materials, Wallboard, Concrete,

su seed to treat cellulosic building materials including, board, oriented strand board (OSB), composite wood norete, masonry (including aggregate block, brick and hibit or prevent the growth of surface mold when the environments. Before applying this product, visible tions favorable to mold growth must be identified and th, and may be mixed with wood protection products rate (DOT). The combination of such DOT containing Fungicidal Agent may be more efficacious than lone. When using a combination system, use the DOT erate. Always assess compatibility with the specific of IPBC 20 Fungicidal Agent is intended to be mixed, spaces the treated surfaces must be subsequently as wallpaper, paint, or similar coatings. DO NOT use rior of buildings engaged in food processing or food

Surface Mold and Mildew Control on Cellulosic Materials, Wallboard, Concrete, Masonry and Other Building Materials Preventative Treatment

Preventative Treatment
To inhibits surface mold and mildew growth on cellulosic materials, wallboard, concrete, masonry and other construction materials for new or renovated building construction, mix FILMGUARD IPBC 20 Fungicidal Agent into water at the rate of 2 gallons (17.5 b) per 100 gallons of water (2.6 oz per gallon of water) and apply evenly by paintbrush, airless sprayer, low-pressure hand-wand or backpack sprayer, Assvire uniform coverage of surfaces to be protected (approximately 500 square feet per gallon). Surfaces must be each wat without number to produce eventy wet without runoff or pooling.

evenly wet without runoff or pooling. When used on interior surfaces, permit treated surfaces to thoroughly dry before painting or affixing overlayment materials, such as siding, wallboard or flooring. Repeat the application of this product as necessary if mold growth appears, and follow directions provided below for Remedial Treatment. Normally, infrequent application (once a year or longer) will provide effective control. If re-growth occurs, investigate to determine the cause and correct the problem prior to reapplication of FILMGUARD IPBC 20 Fungicidal Agent. Mold may recur in conditions of persistently high humidity, standing water, or hidden water leaks.

Kemedia: Ireatment
FILMGUARD IPBC 20 Fungicidal Agent must be used as part of a comprehensive mold remediation or water damage restoration program including:

Periodic monitoring and inspection of conditions favorable to mold growth, such as moisture ingress and high relative humidity

reflotic monitoring and nispection of conditions avorable to mind grown, such as moisture ingress and high relative humidity

Effecting repairs as necessary to eliminate conditions favorable to mold growth

Drying of affected areas to below 20% moisture content

Mix FILMGUARD IPBC 20 Fungicidal Agent into water at the rate of 2 gallons (17.5 lb) per

100 gallons of water (2.6 oz. per gallon of water) and apply evenly by paintbrush, airless

sprayer, low-pressure hand-wand, or backpack sprayer. Assure uniform coverage of

surface to be protected (approximately 500 square feet per gallon). Surfaces must be

evenly wet without runoff or pooling. Permit treated surfaces to thoroughly dry before

painting or affixing overlayment materials, such as siding, wallboard or flooring.

The following associations and Internet sites must be consulted for information on

standards and guidelines for remedial treatment of mold and mildew:

IAQA – Indoor Air Quality Association (www.iaaa.org)

EPAE Environmental Protection Agency (www.epa.gov)

DOH- New York City Department of Health

(www.ci.ncv.ny.us/humidoh/htmlepi/moldprt1.html)

IICRC- Institute of Inspection, Cleaning and Restoration Certification (www.iicrc.org)

Small Areas – Total Surface Area Affected Less Than 10 Square Feet Cleanup Methods\*

Wood and Composite Wood Surfaces

Wood and Composite Wood Surfaces
Prior to applying FILMGUARD IPBC 20 Fungicidal Agent, clean the affected area using
one of the following or another preferred professional method.
Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will
remain in the material but will not grow if the material is completely dried).
Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as

memain in the material but will not grow if the material is completely dried).

Method 2: Damp-wipe surfaces with plain water or use a wood floor cleaner; scrub as needed

Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Minimum personal protective equipment to be worn during clean-up includes gloves, N-95 respirator and goggles/eye protection\*\*

Wallboard (drywall and gypsum board)

Prior to applying FILMGUARD IPBC 20 Fungicidal Agent, clean the affected area using high-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Minimum personal protective equipment to be worn during clean-up includes gloves, N-95 respirator and goggles/eye protection\*\*

Other Construction Materials (Concrete, Masonry etc.)

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried.).

Method 2: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Special procedures and training are required for remediation of moldy areas larger than 10 square feet. Consult guideline for remediation of large areas established by the Indoor All Quality Association (www.iaqa.org) and the US Environmental Protection Agency (www.epa.gov). An excellent reference is the New York City Department of Health publication "Guidelines on Assessment and Remediation of Fungi in Indoor Environments". An excellent guide for professional mold remediation is available from the Institute of Inspection, Cleaning and Restoration Certification (IICRC). Standard S520 is based upon reliable remediation and monitoring of the restoration. Where structural members and/or contents have been exposed to water in excess of 24 hours, there is

Surface Mold and Mildew Control on Cellulosic Materials, Wallboard, Concrete, Masonry and Other Building Materials

- Total Surface Area Affected Between 10 and 100 Square Feet Clean Up

Wood and Composite Wood Surfaces

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needed. Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags.

thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Wallboard (drywall and gypsum board) Method 1: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Method 2: Discard/remove water-damaged materials and seal in plastic bags while inside of containment, if present. Dispose of as normal waste. HEPA vacuum area after it is dried. Other Construction Materials Concrete, Masonry, etc.

Method 1: Wel vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried). Method 2: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Limited or full personal protective equipment includes gloves, N-95 respirator or half-face respirator with HEPA filter, disposable overalls, geggles/eye protection. Full presonal protective equipment includes gloves, disposable full body clothing, head gear, foot coverings, full-face respirator with HEPA filter.

Vas professional judgment; consider potential for remediator exposure ar \* of

Use professional judgment; consider potential for remediator exposure an

Large-Total Surface Area Affected Greater Than 100 Square Feet or Po. for Increased Occupant or Remediator Exposure During Remediation Estimate... to be

Significant
Wood and Composite Wood Surfaces
Cleanup Methods\*
Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will
remain in the material but will not grow if the material is completely dried).
Method 2: Damp-wipe surfaces with plain water or with a wood floor cleaner; scrub as

meeted Method 3: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in a well-sealed plastic

bag.
Method 4: Discard/remove water-damaged materials and seal in plastic bags while inside of containment, if present. Dispose of as normal waste, HEPA vacuum area after it is dried.
Wallboard (drywall and gypsum board)

Wallboard (drywalt and gypsum board)
Cleanup Methods\*
Method 1: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Method 2: Discard/remove water-damaged materials and seal in plastic bags while inside of containment, if present. Dispose of as normal waste. HEPA vacuum area after it is dried. Other Construction Materials, Concrete, Masonry etc.
Cleanup Methods\*
Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not drow if the material is completely dried).

Method 1: Wet vacuum (in the case of porous materials, some mold spores/fragments will remain in the material but will not grow if the material is completely dried). Method 2: High-efficiency particulate air (HEPA) vacuum after the material has been thoroughly dried. Dispose of the contents of the HEPA vacuum in well-sealed plastic bags. Gloves, disposable full body clothing, head gear, foot coverings, full-face respirator with HEPA filter are the-recommended personal protective equipment\*\* Select method most appropriate to situation. Since molds gradually destroy the things they grow on, if mold growth if not addressed promptly, some items may be damaged such that cleaning will not restore their original appearance. If mold growth is heavy and items are valuable or important, you may wish to consult a restoration water damage/remediation expert. Please note that these are guidelines; other cleaning methods may be prefered by some professionals.

damage/remediation expert. Please note that these are guidelines; other cleaning methods may be preferred by some professionals.

\*\* Use professional judgment to determine prudent levels of Personal Protective Equipment and containment for each situation, particularly as the remediation site size increases and the potential for exposure and health effects rises. Assess the need for increased Personal Protective Equipment if, during the remediation, more extensive contamination is encountered than was expected. These guidelines are for damage caused by clean water. If you know or suspect that the water source is contaminated with sawage or chemical or biological pollutinsts, then the Occupational Safety and Health Admin' (OSHA) requires PPE and containment. An experienced professional should be coryou and/or your remediators do not have expertise in remediating contaminate situations.

Containment of Affected Materials

Total Surface Area Affected Between 10 and 100 Square Feet (All Surfaces)
Use polyethylene sheeting ceiling to floor around affected area with a slit entry and
covering flap; maintain area under negative pressure with HEPA filtered fan unit. Block

covering lisp, maintain area under negative pressure with TEPA littered tan Unit. Block supply and return air vents within the containment area.

Total Surface Area Affected Greater Than 100 Square Feet or Potential for Increased Occupant or Remediator Exposure During Remediation Estimated to be Significant Use two layers of fire-retardant polyethylene sheeting with one airlock chamber. Maintain area under negative pressure with HEPA filtered fan exhausted outside of building. Block supply and return air vents within containment area.

Household, Industrial, and Institutional Products

This product is used to control the growth of fungi in household, industrial and institutional products and car care products at concentrations of 0.02 to 0.15% (40-300 ppm active ingredient). This product must not be used in products which come in contact with food. End use applications for this product are: surface cleaning wipes, laundry additives (laundry detergents and fabric softeners), all purpose cleaners, floor care products, polishes, car wash and car wax products, and industrial detergents. This product is used for the preservation of liquids, gels, wax products, pre-moistened wipes or solutions delivered