

464-8125

1/14

Ms. Abigail Trueblood  
Regulatory Specialist  
The Dow Chemical Company  
1500 East Lake Cook Road  
Buffalo Grove, IL 60089

MAY 26 2009

Subject: Filmguard IPBC 20 Fungicidal Agent  
EPA Registration No.: 464-8125  
Amendment Date: July 8, 2008  
EPA Receipt Date: July 9, 2008

Dear Ms. Trueblood,

The following amendment, submitted in connection with registration under section 3(c)(7)(B) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

Addition of New Use: Leather

**Conditions**

Make the following revisions to your label:

- 1) Revise the First Aid statement so that these statements are ordered from the most toxic to least toxic route of exposure as per PR Notice 2001-1. Place "If On Skin Or Clothing" as the first statement in this section.
- 2) Revise the last statement in the "Aqueous Metalworking, Cutting, Cooling & Lubricating Fluids" section to read as follows: "If it is added to the reservoir, *circulate the fluid* to ensure mixing."
- 3) Revise the "Plastics and Plastic Coatings" section to include the following statement: "...Use levels of 1.5-5.0% by weight of the plastic *are adequate*..."
- 4) Correct the typographical error in the use rate of the "Paper Coatings" section: "...Use levels of this product range from 0.1-**3.75** % of this product..."

CONCURRENCES							
SYMBOL	75109						
SURNAME	J. Jark						
DATE	5/26/09						

- 5) Revise the "Wood Preservation" section to clearly indicate the rates associated with this use. Revise the first section following the heading "Wood Preservation" to end with the following statement: "Do not use at rates higher than those indicated on this label."
- 6) Correct the typographical error in the "Wood Preservation", section beginning: "After treatment stack lumber..." to read: "...advantage of prevailing winds to permit good..."
- 7) Revise the following three statements in the "Millwork" section: "...Concentrations up to 4.0% are used depending upon..." "...Use of this product is not for wood surfaces which come in..." and "...Surfaces in continuous contact with skin..."
- 8) Correct the typographical error in the "Leather" section as follows: "...transport and processing of wet leather stock: pickled..."

**Data Matrix**

A typographical error has been corrected on the Agency Copy of the generic data matrix. The requirement for General Metabolism, Guideline 85-1 may be fulfilled by 43570701, not 4357071. Please make the same correction to the matrix in your files.

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3 (c) (5) and section 4 (a) when the Agency requires all registrants of similar products to submit such data.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. Should you have any questions concerning this letter, please contact Stacey Grigsby at (703) 305-6440 or Tracy Lantz at (703) 308-6415.

Sincerely,



Tracy Lantz  
 Acting Product Manager (34)  
 Regulatory Management Branch II  
 Antimicrobials Division (7510P)

Enclosure: Stamped Label, DER 354827, 354908

7510P:T.Lantz:5/26/09:464-8125 leather **CONCURRENCES**

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### 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, leather sapstain on freshly saw 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-Iodo-2-propynyl butyl carbamate . . . . . 20%  
 Inert Ingredients . . . . . 80%  
 Total . . . . . 100%

E.P.A. Registration No. 464-8125  
 E.P.A. Est.  
 Contains 1.73 lbs. of active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

FIRST AID	
IF INHALED	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have affected person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
HOT LINE NUMBER	
<p><b>IN CASE OF AN EMERGENCY</b> 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.</p>	
<p><b>NOTES TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage. Exposure to high concentrations via inhalation may result in the inhibition of acetylcholinesterase and produce related symptoms.</p>	

**Produced for:**  
 THE DOW CHEMICAL COMPANY  
 Midland, Michigan 48674 USA  
 (989)636-4400

**ACCEPTED**  
 with **COMMENTS**  
 in EPA Letter Dated:

MAY 26 2009  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act as  
 amended, for the pesticide,  
 registered under EPA Reg. No. 464-8125

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

Causes skin irritation. Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Do not get on skin, in eyes, or on clothing. Wear chemical resistant gloves when using this product. Wear chemical goggles. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, Estuaries, oceans or public 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.

**STORAGE & DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**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:** Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Returnable Refillable Container:** If this product is packaged in a returnable refillable container, then, after use, do not rinse container. Return container intact to point of purchase. This container must only be refilled with this product. Do not reuse the container for any other purpose. Before refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn threads on close devices. Check for leaks after refilling and before transport.

**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.

**Adhesives**

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 ( $500 \text{ ppm} / 0.05 = 10,000 \text{ ppm}$  or 1.0%).

**Aqueous Metalworking, Cutting, Cooling & Lubricating Fluids**

To inhibit the growth of fungi in aqueous metalworking, cutting, cooling and 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 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, the fluid should be circulated after addition to ensure mixing.

**Cordage**

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 agitation 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.

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### **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

### **Inks**

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 generally impart protection when 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 on wet 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 should 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: shower curtains, cable and wire insulation, polymer furniture, filter medias, 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 generally 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.

**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 0.1-3.75.0% of this product by weight. This product is added at the end of the production cycle and with good agitation to prevent possible mechanical losses and to ensure uniform distribution. As an example, to inhibit the growth of mildew on corrugated cardboard intended for non-food packaging, add 2.5% (25 lbs. FILMGUARD IPBC 20 Fungicidal Agent per 1000 lbs. of 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 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 should be determined by field trials.

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 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 one 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 treat lumber within twenty-four hours after it is sawed. Completely immerse the lumber in the treating bath, and the treating vat designed to permit easy immersion and removal, and to minimize spillage. Clean the vat by emptying and rinsing with a 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 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 in above ground use only 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 recommended 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 may come in contact with food. Surfaces which may be 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% of this product by weight of the final formulation are added to these materials.

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

FILMGUARD IPBC 20 Fungicidal Agent is used to treat cellulosic building materials including, paper, cardboard, wood, plywood, 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 alone. When using a combination system, use the DOT product at the manufacturer's labeled use rate. Always assess compatibility with the specific DOT product with which the 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.

**Preventative Treatment**

To inhibit 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 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 surfaces to be protected (approximately 500 square feet per gallon). Surfaces should be 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.

**Remedial Treatment**

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
- 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 should 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 should be consulted for information on standards and guidelines for remedial treatment of mold and mildew:

IAQA – Indoor Air Quality Association ([www.iaaa.org](http://www.iaaa.org))

EPA- Environmental Protection Agency ([www.epa.gov](http://www.epa.gov))

DOH- New York City Department of Health  
([www.ci.nyc.ny.us/huml/doh/html/epi/moldrpt1.html](http://www.ci.nyc.ny.us/huml/doh/html/epi/moldrpt1.html))

IICRC- Institute of Inspection, Cleaning and Restoration Certification ([www.iicrc.org](http://www.iicrc.org))

**Small Areas- Total Surface Area Affected Less Than 10 Square Feet Cleanup**

**Methods\***

**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 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 Air Quality Association ([www.iaqa.org](http://www.iaqa.org)) and the US Environmental Protection Agency ([www.epa.gov](http://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 restoration techniques and combines academic principles with practical elements of water damage restoration. Where structural members and/or contents have been exposed to water in excess of 24 hours, there is a possibility of extensive microbial growth that may be hidden. In such a case a complete assessment and remediation plan must be prepared that provides for user and occupant safety and documentation and monitoring of the remediation process. IICRC S520 contains excellent guidance for such a plan. In the context of such a plan, FILMGUARD IPBC 20 Fungicidal Agent can be used on materials to be removed and disposed of and in other applications where mold inhibition is indicated. The Standard must be followed exactly and all growth and contaminated organic material removed prior to using FILMGUARD IPBC 20 Fungicidal Agent. Before using FILMGUARD IPBC 20 Fungicidal Agent in mitigation of large projects, you should be knowledgeable of these guidelines and follow their recommendations.

In the absence of access to the guidance and standards identified, the user should refer to the following information taken from U.S. EPA's guide: Mold Remediation in Schools and Commercial Buildings (March 2001). These guidelines are based on the area and

type of material affected by water damage and/or mold growth. Please note that these are guidelines; some professionals may prefer other cleaning methods. Use the appropriate remediation steps prior to application of FILMGUARD IPBC 20 Fungicidal Agent.  
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**Medium- Total Surface Area Affected Between 10 and 100 Square Feet Clean Up Methods\***

**Wood and Composite Wood Surfaces**

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 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.

**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: 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.

Limited or full personal protective equipment is recommended during cleanup\*\*. Limited personal protective equipment includes gloves, N-95 respirator or half-face respirator with HEPA filter, disposable overalls, goggles/eye protection. Full personal protective equipment includes gloves, disposable full body clothing, head gear, foot coverings, full-face respirator with HEPA filter.

Use professional judgment; consider potential for remediator exposure and size of contaminated area.

\*\*\*\*\*

**Large-Total Surface Area Affected Greater Than 100 Square Feet or Potential for Increased Occupant or Remediator Exposure During Remediation Estimated 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 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 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)**

**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 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 is 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 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 sewage or chemical or biological pollutants, then the Occupational Safety and Health Administration (OSHA) requires PPE and containment. An experienced professional

should be consulted if you and/or your remediators do not have expertise in remediating contaminated water 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 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.

**Leather**

FILMGUARD IPBC 20 Fungicidal Agent protects leather from mold and mildew during storage, transport and processing of wet leather sock: pickled, vegetable, chrome, alternative metal, or metal-free hides and skins.

All recommendations of 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 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 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 leather 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/w% (1000-2500 ppm)

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