

72304-1

9/24/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

SEP 23 2008



Office of Pesticide Programs

**Sostram Corporation**  
300 Colonial Parkway  
Suite 230  
Roswell, GA 30076

**Attention: Joseph W. Burley**

**Subject: Clortram F-40 flowable Fungicide**  
EPA File Symbol No. 72304-1  
Amendment Dated June 26, 2008

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to add a "Pressure Treatment" section to the label, is acceptable.

A stamped copy of the "accepted" label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

**Marshall Swindell**  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)

Enclosure

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**CLOTRAM® F-40**  
**FLOWABLE FUNGICIDE**

**For Manufacturing Use to Impart Control of; Mildew on Paint and Stain Films, Adhesives, Caulks and Sealants; Sapstain on Freshly Sawn Wood and Decay Protection in Wood Composites**

**For Surface Mold and Mildew Prevention and Suppression of Algae on Cellulosic Materials, Wallboard, Concrete, Masonry and other Building Materials**

<b>ACTIVE INGREDIENT:</b>	
Chlorothalonil (tetrachloroisophthalonitrile) .....	<b>ACCEPTED</b> with <b>COMMENTS</b> 40.4%
<b>OTHER INGREDIENTS:</b> .....	<b>EPA Letter Dated</b> 59.6%
<b>TOTAL:</b> .....	100.0%

**SEP 24 2008**

Contains 4.17 pounds chlorothalonil active ingredient per gallon.

**Keep Out of Reach of Children**

**WARNING – AVISO**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 72304-1

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID:**

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have 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.

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. Persons having a temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

Emergency phone numbers: (800) 424-9300 CHEMTREC (transportation and spills)  
 (800) 900-4044 Poison Control Center (human health)  
 (800) 345-4735 ASPCA (animal health)

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

**WARNING – AVISO**

May be harmful if inhaled. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not breathe spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**Personal Protective Equipment (PPE):**

Handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks;
- Protective eye wear;
- Waterproof gloves (some of the materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, or viton; If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. DO NOT reuse them.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

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

**ACCEPTED**  
with **COMMENTS**  
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**DIRECTIONS FOR USE**

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

This product is used to protect treated articles from decay, mold or mildew, including paints and stains, adhesives, caulks, grouts, sealants, wood and wood composites.

This product must not be sold as a mildewcidal paint additive designed for direct sale to retail customers, e.g. in a 'pillow pack' or other small volume or one-use package.

This product may be added only to paint products that are labeled

- A) with product-specific instructions for the use of a respirator during application, or
- B) as follows: 'When applying with a sprayer, wear a NIOSH approved respirator with any R, P, or HE filter. [If oil is not present in the paint product or recommended for use as an additive in the paint product, add "N" as an additional respirator type.]'

This product must not be used as an in-container preservative.

Mix contents slowly before using to assure uniform mixture. Clortram F-40 is an aqueous dispersion containing 40.4% (wt/wt) active ingredient. Clortram F-40 is to be used in water-based or water-compatible products only.

Do not apply this product by means of ultra-low volume mist-blowers or thermal "fogging" devices.

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**LATEX EMULSION PAINTS, STAINS, AND COATINGS**

Disperse 12.4 to 24.8 pounds (9.6 to 19.3 pints) of CLORTRAM F-40 per 100 gallons of exterior paint to obtain effective mildew control in the paint film after it is applied. Use the high rate in areas favorable to mildew and mold growth, such as where painted surfaces frequently are warm and moist. CLORTRAM F-40, when added to stains designed for exterior wood, also protects the wood from surface molds and mildew stains caused by fungi.

Use 6.2 to 12.4 pounds (4.8 to 9.6 pints) of CLORTRAM F-40 per 100 gallons of interior latex paint.

CLORTRAM F-40 is compatible with zinc oxide in latex paints.

CLORTRAM F-40 can be used with either unmodified or alkyd modified acrylic, vinyl acrylic, or polyvinyl acetate latexes.

Clortram F-40 can be added into the paint formula during the pigment grind operation, during or after letdown, or post-added to a finished paint product after manufacture.

Note: If Clortram F-40 is used to produce post-manufacturing paint additive products, such products must be distributed to and used by only professional personnel engaged in the mixing or blending of paints. Such post-manufacturing paint additive products may not be sold directly to homeowners or non-professional painters.

If an in-can preservative is used in combination with CLORTRAM F-40, its compatibility with CLORTRAM F-40 should be examined first.

**DO NOT** use in paints designed for applications on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling. **DO NOT** use in paints designed to be handled by children.

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## AQUEOUS ADHESIVES

CLORTRAM F-40 may be incorporated into adhesives to protect the applied adhesive films from mold growth and decomposition. Fully disperse 12.4 to 24.8 pounds of CLORTRAM F-40 per 1,000 pounds of adhesive while it is being manufactured. Use the high rate in areas favorable to mildew and mold growth, such as where surfaces frequently are warm and moist.

**DO NOT** use in adhesives designed for applications on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling.

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## AQUEOUS CAULKS AND SEALANTS

To provide mildew and mold control on caulking or sealing deposits after application, fully disperse 1.25 to 12.5 pounds of CLORTRAM F-40 per 1,000 pounds of caulk or sealant products while they are being manufactured. The high rate is recommended for exterior caulks.

**DO NOT** use in caulks or sealants designed for applications on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling.

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## FRESHLY SAWN WOOD

To prevent sapstain and surface mold growth on freshly sawn wood, mix CLORTRAM F-40 into water-based dip treatment suspensions at the rate of 5 to 10 lbs (1/2 to 1 gallon) per 100 gallons of water. Use the high rate if the wood to be treated is expected to remain in undried condition for a prolonged period. Dip freshly sawn wood products into the treatment suspension for one minute, which should be sufficient time to permit thorough coating of the wood surfaces. Maintain thorough agitation of the treatment suspension while wood is being treated.

Because of the variation in susceptibility of fresh sawn wood related to the type of wood, sawing and storage methods, temperature and humidity conditions, treatment method etc. it is recommended that field tests are performed in order to optimize the means of application and the concentration of the treatment formulation. For best results, wood should be treated as soon as possible after it is sawed. Additional treatment suspension can be added to the treatment vessel provided the appropriate dilution is first prepared in a suitable container prior to adding to the treatment vessel.

The treatment vessel may be cleaned by draining and rinsing with clean water or an aqueous detergent solution. Do not dispose of spent treatment suspensions or treatment vessel washings in any manner that may contaminate soil or water.

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## PRESSURE TREATMENT

Pressure treat wood products before or after dip treatment or add 0.2 to 1 gallons of CLORTRAM F-40 (per 100 gallons of treating solution) to the pressure treating formulation and pressure treat as normal. As for standard dip treatments, maintain agitation during the pressure treating operation.

**STORE TREATED WOOD** in a properly appointed storage area that is not subject to runoff into surface waters. The storage area should be constructed such that the wood is off the ground allowing rapid drainage of treatment suspension and good airflow around the stack. Main alleys should be sufficiently wide to permit good airflow and oriented to take advantage of prevailing winds. The yard should be designed to avoid surface water accumulation and be well maintained to avoid the buildup of wood scraps or other waste that can attract moisture and encourage growth of decay and stain fungi. Vegetative growth in the storage area should also be avoided.

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## COMPOSITE WOOD PRODUCTS

To provide decay protection for composite wood products, such as flakeboard or particle board that is to be used for building siding, sheathing, construction timbers, decking or planking, incorporate CLORTRAM F-40 into the wood composite material while it is being manufactured. Use 1.25 to 12.5 lbs. of CLORTRAM F-40 per cubic foot volume of final wood composite. The high loading rate should be used in composite wood products that are intended to be installed in contact with soil or concrete, or where the wood is intended to be exposed to conditions with continuously high levels of moisture. Thoroughly incorporate CLORTRAM F-40 into the composite material as it is being ground, mixed or blended with adhesives or binding materials prior to final formation of the wood composite matrix.

## SURFACE MOLD AND MILDEW CONTROL AND SUPPRESSION OF ALGAE ON CELLULOSIC MATERIALS, WALLBOARD, CONCRETE, MASONRY AND OTHER BUILDING MATERIALS

CLORTRAM F-40 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 and algal organisms when the materials are subjected to moist or wet environments. Before applying this product, visible mold and algal growth must be removed, and conditions favorable to mold and algal 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 CLORTRAM F-40 may be more efficacious than CLORTRAM F-40 alone. When using a combination system, use the DOT product at the manufacturer's labeled use rate. 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 on 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 CLORTRAM F40 into water at the rate of 2 gallons (21 lb) per 100 gallons of water (2.5 oz per gallon of water) and apply evenly by paintbrush, airless sprayer, low pressure handwand 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, follow directions provided below for REMEDIAL TREATMENT. Normally, infrequent application (once a year or longer) will provide effective control. If regrowth occurs, investigate to determine the cause and correct the problem prior to reapplication of CLORTRAM F-40. Mold may recur in conditions of persistently high humidity, standing water, or hidden water leaks.

### REMEDIAL TREATMENT

CLORTRAM F-40 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

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- Effecting repairs as necessary to eliminate conditions favorable to mold growth
- Drying of affected areas to below 20% moisture content

Mix CLORTRAM F-40 into water at the rate of 2 gallons (21 lb) per 100 gallons of water (2.5 oz per gallon of water) and apply evenly by paintbrush, airless sprayer, low pressure handwand, 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/html/doh/html/epi/moldrpt1.html](http://www.ci.nyc.ny.us/html/doh/html/epi/moldrpt1.html))

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

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

**Cleanup Methods\***

**Wood and Composite Wood Surfaces**

Prior to applying CLORTRAM F-40, 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 CLORTRAM F-40, 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 and Porous and Non-porous Hard Surface Substrates.**

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 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 guidelines 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

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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, CLORTRAM F-40 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 CLORTRAM F-40. Before using CLORTRAM F-40 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 US. 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 CLORTRAM F-40.

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**Medium-Total Surface Area Affected Between 10 and 100 Square Feet  
Cleanup 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 (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 and Porous and Non-porous Hard Surface Substrates.**

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 (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.

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**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

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