

03/02/2004



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 02 2004

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ms. Ruhi Rezaaiyan  
Regulatory Manager for,  
GB Biosciences Corporation  
P. O. Box 18300  
Greensboro, NC 27419

Subject: Tuffcide 960  
EPA Registration Number 50534-114  
Your Amendment Dated January 8<sup>th</sup>, 2004  
EPA Received Date January 9<sup>th</sup>, 2004

The amendment, submitted in connection with registration under the Federal sec. 3(c)(7)(A), of the Federal Insecticide, Fungicide, and Rodenticide Act(FIFRA), as amended, to add new uses such as adhesives, caulks, sealants, and wood composites to the product labeling, is acceptable.

A stamped copy of the labeling is enclosed for your records.

Add the following statement to the "Latex Emulsion paints, stains, and coatings" section to read as follows:

Tuffcide 960 **MAY NOT** be used for food grade coatings

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely yours,

Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobial Division(7510C)

CONCURRENCES

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

# TUFFCIDE® 960

**BROAD SPECTRUM FUNGICIDE FOR CONTROL OF FUNGAL  
GROWTH IN A RANGE OF AQUEOUS & SOLVENT-BASED  
PAINTS, STAINS, & COATINGS, GROUTS, ADHESIVES, CAULKS, SEALANTS, AND WOOD  
COMPOSITES**

**For Industrial Use Only**

Active Ingredient:	
Chlorothalonil (tetrachloroisophthalonitrile) .....	96.0%
Other Ingredients:	4.0%
Total:	100.0%

**KEEP OUT OF REACH OF CHILDREN.**

**DANGER/PELIGRO**

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.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 50534-114  
EPA Est.

SCP

Net Contents

ACCEPTED  
with COMMENTS  
in EPA Letter D-0004  
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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for use as a  
registered under EPA Reg. No.  
50534-114

<b>FIRST AID</b>	
<b>If in eyes</b>	<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>
<b>If inhaled</b>	<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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<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>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
<p>This product may produce temporary irritation and side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having these reactions or an allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids. Probable mucosal damage may contraindicate the use of gastric lavage.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<b>HOT LINE NUMBER</b>	
<p>For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call <b>1-800-888-8372</b></p>	

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in EPA Letter Dated:

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Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
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**PRECAUTIONARY STATEMENTS**

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**HAZARDS TO HUMANS AND DOMESTIC ANIMALS****DANGER**

Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Causes skin irritation.

**DO NOT** get in eyes, on skin, or on clothing. **DO NOT** breathe dust. **Wear protective eyewear (goggles or face shield, or safety glasses). Wear long-sleeved shirt and long pants, socks, chemical resistant footwear, and chemical resistant gloves (such as or made out of any water-proof material, Selection category A) when mixing, loading and applying this product.** Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

**Note to User: Exposure to formulations containing chlorothalonil may produce temporary irritation and side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin. Persons having these reactions or allergic symptoms should contact a physician.**

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

**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.

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**Environmental Hazards**

This pesticide 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 local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

**WILDLIFE:** This pesticide is toxic to aquatic invertebrates and wildlife. Do not contaminate water when disposing of equipment washwater or rinsate.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

100-5534-114  
www.syngenta.com  
in EPA label 6/04

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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.**

Observe all precautions listed under "Precautionary Statements" when handling and using this product. TUFFCIDE 960 is a micromilled powder. Use TUFFCIDE 960 at rates of 0.025% to 1.6% (wt/wt) depending upon the substance to be protected, the fungal hazard, and the duration of protection desired. It is the responsibility of the formulator to test TUFFCIDE 960 for optimum dosage levels and to determine compatibility and suitability for the intended use.

This product must not be formulated into a mildewicidal paint additive product for direct sale and use by retail consumers, e.g., in a 'pillow pack' or other small volume or one-use package. The one-use package can be used by professional store operators.

This product must not be used to formulate products for use as in-container preservatives.

This product may only be added to paint products that are labeled as follows: "When applying with a sprayer, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or 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."

#### LATEX EMULSION PAINTS, STAINS, AND COATINGS

For exterior paints, stains, and coatings, 4 to 10 pounds of TUFFCIDE 960 per 100 gallons normally provide sufficient surface protection against mold and mildew growth. Levels of 2.5 to 5 pounds are effective for interior applications. Use higher dosage rates in areas more favorable to mildew growth. Dispersion is readily accomplished during the pigment grinding operation. TUFFCIDE 960 can be used in coatings containing zinc oxide.

#### SOLVENT-BASED EXTERIOR PAINTS, STAINS, AND COATINGS

Use TUFFCIDE 960 at the rate of 5 to 12 pounds per 100 gallons. Use higher dosage rates in areas more favorable to mildew growth. Dispersion is readily accomplished during the pigment grinding operation. TUFFCIDE 960 can be used in coatings containing zinc oxide.

#### WOOD PRESERVATIVE STAINS

Add TUFFCIDE 960 at the rate of 5 to 12 pounds per 100 gallons, depending upon degree of hazard and length of protection desired. Dispersion is readily accomplished during the pigment grinding operation. It is the responsibility of the formulator to obtain end-use product registrations and to determine suitability of TUFFCIDE 960 for this use.

TUFFCIDE  
with COMBIMERS  
in EPA Label Data 2

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Tuffcide 960

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### GROUTS

Add TUFFCIDE 960 to dry grout at 0.4 to 1.6% by weight during the dry blending process, e.g., 0.4 to 1.6 pounds of TUFFCIDE 960 per 100 pounds of dry grout blend. Adequate controls should be employed to prevent dusting during the handling and use of this product.

### ADHESIVES

TUFFCIDE 960 may be incorporated into adhesives to protect the applied adhesive films from mold growth and decomposition. Fully disperse 5 to 10 pounds of TUFFCIDE 960 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 in the interior of buildings engaged in food processing or food handling.

### CAULKS AND SEALENTS

To provide mildew and mold control on caulking or sealing deposits after application, fully disperse 0.5 to 5 pounds of TUFFCIDE 960 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 for applications on food-contact surfaces, or on the interior of buildings engaged in food processing or food handling.

### COMPOSITE WOOD PRODUCTS

To provide decay protection for composite wood products, such as flakeboard or particle board that is to be used for building, sheathing, construction timbers, decking or planking, incorporate TUFFCIDE 960 into the wood composite material while it is being manufactured. Use 0.5 to 5 pounds of TUFFCIDE 960 per cubic foot volume of final wood composite. The high loading rate should be used in composite wood products that are to be installed in contact with soil or concrete, or where the wood is to be exposed to conditions with continuously high levels of moisture. Thoroughly incorporate TUFFCIDE 960 into composite material, as it is being ground, mixed or blended with adhesives or binding materials prior to final formation of the wood matrix.

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## STORAGE AND DISPOSAL

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

### Pesticide Storage

Store in a dry place.

### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide formulation 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

Completely empty drum by shaking and tapping sides and bottom to loosen clinging particles.



Empty residue into mixing equipment. Then offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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For non-emergency (e.g., current product information) call  
Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
[www.syngenta-us.com](http://www.syngenta-us.com)

SCP 50534-114A-L1 XXXX

Z:LABELT-W/TUF114RSA (05-02-02) – RR– 05/02/02

TUF 114 RSA tuf 960 AMD DRAFT aa-12-18-03 clean

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