

PM 22

50534-114

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Tuffcide 960  
EPA Reg. No. 50534-114

<sup>1</sup>Net Contents: 100 Pounds/45.4 Kilograms  
(Logo)

**TUFFCIDE® 960**

**BROAD SPECTRUM FUNGICIDE FOR CONTROL OF FUNGAL  
GROWTH IN A RANGE OF AQUEOUS & SOLVENT-BASED  
PAINTS, STAINS, & COATINGS, GROUTS, AND  
MARINE ANTIFOULANT COATINGS**

**For Manufacturing/Industrial Use Only**

**Active Ingredient:**

Chlorothalonil (tetrachloroisophthalonitrile):..... 96.0%

**Inert Ingredients:** ..... 4.0%

**Total:**..... 100.0%

EPA Reg. No. 50534-114

EPA Est. No.

**Keep Out of the Reach of Children**

**DANGER**

**FIRST AID:**

**IF SWALLOWED:** Call a doctor or get medical attention. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**IF IN EYES:** Hold eyelids open and flush eyes with a steady, gentle stream of water for 15 minutes. Get medical attention immediately.

**IF ON SKIN:** Wash exposed areas of skin with soap and warm water. Get medical attention. Persons having allergic reaction should contact a physician.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**Note to Physician:** 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.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

**ACCEPTED**  
APR 21 1997  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 50534-114

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**PRECAUTIONARY STATEMENTS**

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**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

Corrosive, causes irreversible eye damage. May be a potential skin sensitizer.

DO NOT get in eyes, on skin, or on clothing. Wear goggles or face shield, rubber gloves, long-sleeved shirt, and long pants when mixing, loading and applying this product. May be fatal if inhaled. DO NOT breathe dust. 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 before reuse. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling.

**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.

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**ENVIRONMENTAL HAZARDS**

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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.

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## DIRECTIONS FOR USE

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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.

### 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.

### 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.

### MARINE ANTIFOULING COATINGS

TUFFCIDE 960 is a unique antifouling biocide for use in marine coatings applied to ship and boat hulls and other submerged surfaces. TUFFCIDE 960 has demonstrated effectiveness against barnacles, algae and tube worms, the principal forms of fouling on ocean-going vessels, and against mussels, hydroids, tunicates and bryozoans, which are prevalent when the ship spends protracted periods at dockside.

TUFFCIDE 960 has proved effective as the sole antifouling agent in marine coatings based on chlorinated rubber, polychloroprene, acrylic/rosin, alkyd/rosin and vinyl/rosin. When used with cuprous oxide, TUFFCIDE 960 has evidenced a synergism that results in slime control on ship hulls. The low water solubility of TUFFCIDE 960 makes it especially useful as an anti-slime adjuvant for use with copolymer ablative coatings.

TUFFCIDE 960 is added to the marine coating during the pigment grinding operation. Dosage levels are dependent on the length of time antifouling protection is desired, the temperature of the waters in which the ship will operate and the ingredients in the marine coating. Dosage levels of 5% to 15% TUFFCIDE 960 in the formulated coating (wt/wt wet basis) are suggested. It is the responsibility of marine coating manufacturers to determine the necessary information needed to register their coating formulation.

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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.

**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: Fiber Drums:** 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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## WARRANTY AND LIMITATION OF DAMAGES

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Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OR SELLER IS AUTHORIZED TO DO SO EXCEPT IN WRITING WITH A SPECIFIC REFERENCE TO THIS WARRANTY. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in the Directions for Use of this product, weather conditions, moisture conditions or other environmental conditions, and those conditions which are outside of the ranges that are generally recognized as being conducive to good industrial and/or application practices.

Tuffcide is a registered trademark of ISK Biosciences Corporation.  
Made in U.S.A.

**ISK Biosciences Corporation**  
5966 Heisley Road  
Mentor, OH 44060

**Notes:** Last EPA stamped approved label on file is dated May 5, 1988.  
**EPA Submission date:** 1/31/97 - Label Amendment: Updated the label as per the EPA Label Review Manual (1995); listed additional uses: coatings, wood preservative stains, and grouts; and deleted the reference to the Product Bulletin under the Directions for Use Section. The Agency responded to the 1/31/97 label amendment on 2/27/97 in which they raised several issues. The label was revised and resubmitted to EPA on March 19, 1997.

*File: IBC/ISK Product Labels/ISK Labels/Tuffcide Labels/Tuffcide 960 50534-114/Revised 3/97 see EPA's ltr. 2/27*