



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401

"M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
50534-224

Date of Issuance:
FEB 2 1998

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance: **CONDITIONAL**

Name of Pesticide Product:
TUFFCIDE XTRA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Name and Address of Registrant (include ZIP Code):

**ISK Biosciences Corporation
5966 Heisley Road, P.O. Box 8000
Mentor, Ohio 44061-8000**

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Add the phrase EPA Registration Number "EPA Reg. No. "50534-224".

Signature of Approving Official:

Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510W)

Date:

FEB 2 1998

EPA Form 8570-6

CONCURRENCES

SYMBOL	SURNAME	DATE					

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3. In the "Directions For Use" section add the statement "This formulation may not be used in the manufacture of food grade adhesives and paper and paper coatings".

4. The type size of the "Storage and Disposal" header must be increased to equal the type size of the "Keep Out Of Reach Of Children" statement.

5. Submit two copies of the revised final printed label for the record.

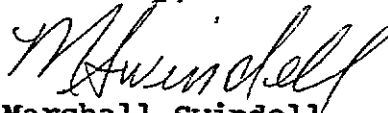
The revised Confidential Statement of Formula (CSF) dated 1/27/98 is in compliance with PR Notice 91-2, it agrees with the label and is acceptable. All ingredients in this CSF are cleared by the Agency for use in pesticide formulations.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

If you have any questions concerning this letter, please contact Tony Kish at (703) 308-9443.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division (7510W)

Enclosure

CONCURRENCES							
SYMBOL							
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DATE							

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TUFFCIDE® XTRA

BROAD SPECTRUM FUNGICIDE FOR CONTROL OF FUNGAL GROWTH

*For Use in Aqueous Paints, Stains, Coatings,
Adhesives, Caulks, Sealants, Grouts, Joint Compounds,
and Wood Preservative Stains*

For Industrial/Manufacturing Use Only

Ingredient Statement

Active Ingredient:

Chlorothalonil (tetrachloroisophthalonitrile) 54.0%

Inert Ingredients:..... 46.0%

Total: 100.0%

This product contains 6.0 lbs. of chlorothalonil per gallon.

EPA Reg. No. 50534-*EEU*

EPA Est. No.

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

FEB 2 1998

KEEP OUT OF REACH OF CHILDREN

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

50534-224

WARNING

FIRST AID:

IF IN EYES: Immediately flush eyes with plenty of water and continue for 15 minutes. Seek medical attention for eyes immediately.

IF ON SKIN: Wash with plenty of soap and warm water. Get medical attention.

IF INHALED: Remove person to fresh air and get medical attention immediately.

IF SWALLOWED: Call a physician 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.

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 system steroids.

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

DO NOT get in eyes, on skin, or on clothing. DO NOT take internally. Avoid breathing spray mist. Wear goggles or face shield, rubber gloves, long sleeved shirt, and long pants when mixing, loading and applying this product. Remove contaminated clothing and wash before reuse.

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.

ENVIRONMENTAL HAZARDS

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

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 Xtra is intended for use in aqueous systems only. Before use, thorough mixing of **Tuffcide Xtra** is recommended to assure a uniform mixture. Add **Tuffcide Xtra** at levels of 0.10% to 2.8% (wt/wt) depending upon the substrate to be protected, the fungal hazard, and the duration of protection desired.

When an in-can preservative is used in combination with Tuffcide Xtra, it should be tested first for compatibility. Further information is available from our Technical Service personnel.

It is the responsibility of the manufacturer to test Tuffcide Xtra for optimum dosage levels and to determine compatibility and suitability for the intended use.

LATEX EMULSION PAINTS, STAINS, AND COATINGS:

Levels of 3.7 to 7.5 pounds of **Tuffcide Xtra** per 100 gallons (0.37% to 0.75% wt/wt) are effective for interior applications, while 7.5 to 18.5 pounds (0.75% to 1.85%) normally provide sufficient protection for exterior uses. **Tuffcide Xtra** can be added during the pigment grind operation, during or after letdown, or post-added to a finished product. **Tuffcide Xtra** is compatible with paints and coatings containing zinc oxide.

AQUEOUS ADHESIVES, CAULKS, AND SEALANTS:

Aqueous adhesives - Use 0.10 to 0.90 pounds of **Tuffcide Xtra** per 100 pounds (0.10% to 0.90% wt/wt) with dosage rate depending on fungal hazard and duration of protection desired.

Aqueous caulks and sealants - Use 0.20 to 0.90 pounds of **Tuffcide Xtra** per 100 pounds (0.20% to 0.90% wt/wt) to provide mildew control on interior and exterior caulks and sealants.

GROUTS AND JOINT COMPOUNDS:

Add **Tuffcide Xtra** to grouts and joint compounds at 0.7% to 2.8% by weight during the blending process, e.g., 0.7 to 2.8 pounds of **Tuffcide Xtra** per 100 pounds of grout or joint compound blend.

WOOD PRESERVATIVE STAINS:

Above Ground Application: Add **Tuffcide Xtra** at the rate of 7.5 to 18.5 pounds per 100 gallons of water-based stain formulation to prevent growth of mold, mildew, and wood decay fungi.

Tuffcide Xtra can be added during the pigment grind operation, during or after letdown, or post-added to a finished product. **Tuffcide Xtra** is compatible with stains containing zinc oxide. It is the responsibility of the formulator to determine the suitability of **Tuffcide Xtra** for this use and to obtain end-use product registration.

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STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Storage: Store in a cool place. Protect from excessive heat.

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 with Liners and Plastic Containers -- Triple rinse (or equivalent). Then offer for recycling 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.

WARRANTY AND LIMITATION OF DAMAGES

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
Industrial Biocides Division
416 East Brooks Road
P.O. Box 9158
Memphis, TN 38109-0158**

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File: IBC/ISK Product Labels / ISK Labels / Tuffcide Labels / TUFFCIDEXTRA / New Registration Submitted 10/30/97