

81348-7

10-5-2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

October 5, 2004

Carrie M. Buck  
Product Registration Coordinator  
Micropel, LLC  
P.O. Box 434  
Florham Park, NJ 07932

Subject: Micropel 5 PVC-F  
EPA Registration No: 81348-7  
Application Dates: August 26, 2004  
EPA Received Dates: August 27, 2004

Dear Ms. Buck:

The following amendment, submitted under connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

**Proposed Amendment**

- Revised labeling

**Conditions**

Revise the label as follows:

1. Revise the "If In Eyes" section to include the statement "Call a poison control center or doctor for treatment advice."
2. With respect to the technical use bulletin, delete the word "Usually" in the second to the last paragraph on page 1. The statement contradicts the precautionary statements. We will accept the statement "It is recommended that rubber gloves and goggles be used when handling."

CONCURRENCES

SYMBOL	IS/DC						
SURNAME	J. Day						
DATE	10-15-04						

**General Comments**

A stamped copy of the labeling accepted with conditions is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact me at 703-308-6422.

Sincerely,



Adam Heyward  
Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510 C)

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

Corrosive. Causes burns. Do not get in eyes, on skin or on clothing. Wear protective clothing and rubber gloves. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use.

See right panel for additional precautions and refer to the Technical Bulletin for additional directions for use.

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call 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 do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<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. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye.</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 further 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>HOTLINE NUMBER:</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <i>You may also contact 1-800-222-1222 for emergency medical treatment information.</i>	
<b>NOTE TO PHYSICIAN:</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

# MICROPEL™ 5 PVC F

**Solid Resin Carrier  
Bacteriostatic & Fungistatic Additive for Plastics**

EPA Reg. No. 81348-7

EPA Est. No. 16-VA-1

**ACTIVE INGREDIENT:**

10,10'-oxybisphenoxarsine.....5.0%  
(total arsenic as elemental As-1.5%)  
(Water soluble arsenic as elemental As-less than 0.01%)

**INERT INGREDIENTS..... 95.0%**  
**TOTAL..... 100.0%**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**READ THIS LABELING BEFORE USING  
FOR ADDITIONAL INFORMATION SEE BULLETIN**

**ACCEPTED  
with COMMENTS  
EPA Letter Dated:  
OCT - 5 2004**

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

**81348-7**

MICROPEL LLC

P.O. Box 434

Florham Park, New Jersey 07932

Net Weight: \_\_\_\_\_

## **ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish, aquatic invertebrates, and birds. Do not discharge effluent containing this pesticide into streams, rivers, lakes, or other waters unless in accordance with the National Pollution Discharge Elimination System (NPDES) permit notified in writing prior to discharge into sewer systems without previous approval. For guidance contact your State water control agency.

## **DIRECTIONS FOR USE**

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

**Interior application:** Such as PVC upholstery, interior automotive gas pedal (0.0% of Micropel 5 PVC F based on compound) **Exterior applications:** awnings, ditch and pond liners, manhole covers, Micropel 5 PVC F based upon the manufacturer's instructions.

**NOTICE TO USER:** This product is not for use in contact with foodstuffs, nor items of food grade paper coatings, paper products, or other food contact surfaces.

**Note:** Please refer to Technical Bulletin for product information.

**STORAGE**

Do not contaminate water, food, or feed. **PESTICIDE STORAGE:** Do not store in unapproved containers. Do not use if container cannot be used according to label instructions or approved State procedures under the Resource Conservation and Recovery Act (RCRA). **PESTICIDE DISPOSAL:** Pesticide residue, excess pesticide, spray mixture, and empty containers cannot be disposed of by user. Contact the nearest EPA regional office for disposal instructions. **CONTAINER DISPOSAL:** Completely empty container to loosen clinging particles. Dispose of liner in sanitary landfill in accordance with local authorities. If drum is contaminated, dispose in accordance with local authorities.

Seller makes no warranty, expressed or implied, other than indicated on the label. Do not use this material when such use and/or application is prohibited.

# MICROPEL®

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P.O. Box 434  
Florham Park, New Jersey 07932

## TECHNICAL USE BULLETIN MICROPEL 5 PVC-F Antimicrobial Additive for Plastics

### PRODUCT DESCRIPTION

MICROPEL 5 PVC-F is a concentrate of 10,10'-Oxybisphenoxarsine (OBPA) in a polymeric resin carrier. The product, supplied as a homogeneous solid in pelletized form, is recommended for PVC and other polymeric compositions requiring preservation from fungal and bacterial deterioration. Low levels of MICROPEL 5 PVC-F will provide long term preservation from fungal and bacterial attack and will help prevent surface growth, permanent staining, embrittlement and premature product failure.

### TYPICAL PROPERTIES

Composition:	
10,10'-Oxybisphenoxarsine	5%
Inert Carriers:	~95%
Pellet Size:	Approximately 1/16" x 1/16"
Bulk Density:	40-45 lbs./cu.ft.
Appearance:	Off White Pellets
Torque Rheometer Viscosity:	620 meter-grams
Glass Transition Temperature	63°C (145°F)

### APPLICATION

MICROPEL 5 PVC-F antimicrobials are recommended for polyvinyl chloride, polyurethane, silicone and latex polymers. Applications include:

Vinyl film and sheeting – pool liners, pond liners, ditch liners, waterbed liners, shower curtain protective covers, mats, insulators, barrier films.

Extruded profiles – automotive moldings, weather stripping, appliance gasketing, wire and cable jacketing, foam gaskets, floor moldings.

Plastisols – vinyl flooring, laminating adhesives for industrial coated fabrics, adhesives for windows, grout and pipe sealants, sail cloth.

Molded goods – vinyl floor tile, waste containers, injection molded automotive parts, shoe soles.

Coated fabrics – wall coverings, upholstery, pillow and mattress ticking, backlit signs, awnings, tents, tarpaulins, protective covers, aprons, barrier fabrics.

Coatings/Sealants – industrial urethane coatings, artificial leather, sail cloth, raincoats, silicone caulks for bathroom and industrial use, carpet backing.

Foams – pillow and mattress foam, carpet underlay, gasket, shoe soles.

The most commonly used methods for preserving plastics against fungal and bacterial attack are to add liquid solutions of OBPA (such as the MICROPEL 5 Series) or to add the pure active ingredient in a powdered or granular form. Concentrated powders/granulars are quite toxic and must be handled with extreme caution; they also can cause contamination of processing equipment.

Liquid systems eliminate the dusting problem, but rubber gloves and goggles are usually recommended in their handling.

MICROPEL 5 PVC-F not only eliminates dusting problems, but it reduces the need for special handling. It is compatible with most thermoplastic resins and will not discolor or detract from the product's chemical or physical properties.

MICROPEL 5 PVC-F can be incorporated into the resin compound at any convenient stage of the manufacturing process. The product can be fed into an extrusion operation in much the same way as pelletized color concentrates or other such additives. Since it is soluble in most common coating and printing ink solvents, it can be added directly to them. OPBA, the active ingredient, is resistant to leaching and is non-volatile at normal coating and plastic processing and use temperatures. Properly formulated compounds containing it will resist fungal and bacterial deterioration after long term exposure to heat and severe weathering conditions.

For those processors and compounders unable to use MICROPEL 5 PVC-F in the pellet form, other MICROPEL bacteriostatic and fungistatic compounds are available as 5% active solutions in various plasticizers and solvents (DIDP, DOP and PPG). This product should not be used in treated articles, which are intended to contact food or drinking water.

**RECOMMENDED USE LEVELS**

Effective preservation against the growth of bacteria and fungi can be obtained using low levels of MICROPEL 5 PVC-F. The addition level is dependent upon the fungal and bacterial susceptibility of the product, the amount of preservation required, the ultimate use of the product and the degree of exposure to outdoor weathering or other conditions favorable for fungal and bacterial growth.

The recommended use levels are based upon actual tests conducted or general experience with exposure of the products to actual conditions. FUNGAL AND BACTERIAL SUSCEPTIBILITY TESTING AND TECHNICAL ASSISTANCE FOR YOUR SPECIFIC REQUIREMENTS ARE AVAILABLE FROM MICROPEL, LLC.

*Interior Applications* such as PVC floor and wall coverings, coated fabrics for upholstery, interior automotive parts, refrigerator gaskets, shower curtains and mattress covers – use 0.6% of MICROPEL 5 PVC-F based upon the total weight of the formulation (6 lbs/1000 lbs. of compound).

*Exterior Applications* such as automotive landau tops, exterior automotive trim, tarpaulins, awnings, ditch and pool liners, marine upholstery, swimming pool liners – use 1.0% of MICROPEL 5 PVC-F based upon the total weight of formulation (10 lbs/1000 lbs. of compound).

Fungal and bacterial activity under sever outdoor exposure is influenced by the overall weatherability of the plastic system. Recommendations on formulation parameters for products subjected to long term outdoor exposure are available from Micropel, LLC.

**TOXICOLOGY**

Based upon toxicological studies, MICROPEL 5 PVC-F has been classified as falling in category 1 of the Section 3 regulations of the FIFRA Act as amended in 1972 on the basis of eye and skin effects. The precautionary statements specified for this category are printed on the product label.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Remove empty polyethylene liners from the drum and incinerate the liner or dispose with other refuse. Empty drums may be reconditioned and recycled. Alternatively, crush fiber drums and incinerate or dispose with other refuse. Metal drums that cannot be reconditioned and recycled, should be crushed and disposed in landfill.

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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.

EPA REQUIRES THAT ANY PESTICIDE PRODUCT SHOULD ONLY BE USED AS SPECIFIED ON THE CONTAINER LABEL.

**Standard Package**

- 25 kilos net fiber drum
- 350 lbs. net steel drum