

10466-46

10/2/2014

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Olivia D. Laird  
Laird's Regulatory Consultants, Inc.  
Agent for: Thompson Research Associates, Inc.

OCT 02 2014

SUBJECT: Ultra-Fresh DW-56  
EPA Registration Number: 10466-46  
Application Dated: September 23, 2014  
Receipt Date: September 30, 2014

Dear Ms. Laird:

This letter acknowledges receipt of the amendment identified above submitted under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended.

After review, the revisions to the label to clarify that this product is for use only in the manufacture of non-food use products have been found acceptable. Should you have any questions concerning this letter, please contact me at (703) 347-8028.

Sincerely,

A handwritten signature in black ink that reads "E. Miederhoff".

Eric Miederhoff  
Acting Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs  
Date: October 2, 2014

# Ultra-Fresh DW-56

**Biostat**

## DIRECTIONS FOR USE

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

Ultra-Fresh DW-56 is designed to control the growth of fungi, bacteria and algae in textiles; non-food contact aqueous coatings; polymeric materials such as fibres and films; non-food contact foams; adhesives; grout; mortar and mastics. Ultra-Fresh DW-56 is to be used as directed in the accompanying Technical Data Sheet.

End-use treated articles incorporating this product may not make bacteriostatic or fungistatic claims, other than for preservation or protection of the treated article itself.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with 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 EPA.

EPA Reg. No. 10466-46  
EPA Est. 81110-GBR-001

## ACTIVE INGREDIENT

Zinc Omadine (Zinc, 2-pyridinethiol-1-oxide) ..... 15%  
Thiabendazole (2-(4-Thiazolyl)-1H-benzimidazole) ..... 15%  
INERT INGREDIENTS ..... 70%  
Total..... 100%

## KEEP OUT OF REACH OF CHILDREN

## WARNING

### PRECAUTIONARY STATEMENTS:

Hazard to humans and domestic animals. Causes substantial but temporary eye injury Harmful if swallowed. Harmful if absorbed. Avoid contact with eyes, skin or clothing. Wear coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant goggles, chemical-resistant footwear, and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing.

### FIRST AID

<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 do so by a 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 eye.</li> <li>Call poison control center or doctor for treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies call your local poison control center.

**ACCEPTED**

10/02/2014

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 10466-46

## STORAGE AND DISPOSAL

**Prohibitions:** Do not store or transport in unlined metal containers. Do not contaminate with strong oxidizing or reducing agents. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

**Pesticide Disposal:** Pesticides are acutely hazardous. Improper disposal of excess pesticide 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:

**Plastic Containers:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose in sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**General:** Consult Federal, State, or local disposal authorities for approved alternative procedures.

Manufactured for: Thomson Research Associates  
49 Gervais Drive  
Toronto, Ontario, Canada  
M3C 1Y9

Ultra-Fresh is a registered trademark of Thomson Research Associates Inc

Net Contents: US Gallons

2002/14

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315  
**ACCEPTED**

10/02/2014

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 10466-46

# Technical Data Sheet

# Ultra-Fresh DW-56 Biostat

**Ultra-Fresh DW-56** is a suspension, ranging in colour from off-white to tan, designed to control the growth of fungi, bacteria and algae in water-based coatings,

**Ultra-Fresh DW-56** will control the growth of microorganisms on textiles. The following examples of products (substrates) suitable for finishing with this product: Textiles such as: Wearing apparel – for example work-wear, uniforms, sportswear, slacks, shirts, underwear, sweatshirts, sweatpants, socks, oven mitts, slippers, bathrobes, gloves, hats, scarves, jackets, incontinence pad cover stock, washable incontinence briefs and panties.

Household products, for example, upholstery, polyurethane foams for furniture, curtains, wall coverings, mops, yarns, cords, non-food contact toweling and blankets, sheets, pillowcases. Synthetic fiber wipes, tissues, foams and sponges (non-food contact). Automotive, boat, train and airplane seats and seat coverings.

Outdoor textile applications include cotton and cotton/poly blend ducking for use in canvas and awnings.

**Ultra-Fresh DW-56** can be used to treat filter media, polyester fiber for use in tow and cut, for pet and animal bedding, synthetic brooms, mops, non-food contact cleaning implements, mop yarns, air filter media, wall and window coverings and dust towels.

Applications in water-based emulsions for non-food contact applications including adhesives, grout, mortar, mastics, latex and latex coatings.

## **DIRECTIONS FOR USE**

The application levels given below are representative of those found to be successful in practical applications. For each specific use, one or more trial runs are recommended in order to determine the optimum application method and level of addition for substrate being treated.

### **1. Aqueous coatings on limited textiles**

Polyurethane, acrylic, PVC and latex coatings and compounds may be rendered resistant to the growth of microorganisms by the incorporation of **Ultra-Fresh DW-56**. **Ultra-Fresh DW-56** can be added directly to the liquid system prior to the drying/heating/crosslinking/curing stage at dosage levels of 0.2% to 0.7% on the final weight of the coating. For some applications, minor formulation adjustments may be required to control physical properties.

### **2. Aqueous Polymer Systems and Coatings**

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Ultra-Fresh DW-56 may be utilised in a wide range of water-based polymers, adhesives and resin coating systems for non-food contact applications. Add Ultra-Fresh DW-56 directly to the polymer system such that the dosage is in the range of 0.2 - 0.4% on the total weight of the finished goods. Its unique formulation will impart strong antimicrobial properties to a wide range of outdoor applications, construction, specialist and industrial coatings.

This list is only intended to give examples of the types of usages that the Ultra-Fresh products have been shown to be effective. Ultra-Fresh products are only intended to confer antimicrobial protection to treated articles, not to protect the people who are using them. Contact your local distributor to confirm that the usage type desired is acceptable according to Federal and local government regulations.

### PHYSICAL PROPERTIES

Colour & Appearance: ..... Opaque off-white to brown liquid  
Specific Gravity: ..... 1.05 – 1.20  
pH: ..... 6.9 – 7.9

### HANDLING PRECAUTIONS

Ultra-Fresh DW-56 should be handled with care and common sense that is accorded to all biologically active chemicals. In case of contact with skin, remove and launder contaminated clothing before reuse. Consult Material Safety Data Sheet for more information.

### SPILL CLEAN-UP PROCEDURES

For small spills, absorb with sand, clay or other inert absorbent and place in clean, dry container for disposal. Large spills should be diked to prevent spreading. Pump spilled material to containers for salvage or disposal. Absorb the residual material as for small spills. Clean the spill area with detergent and water. This product is toxic to fish. Keep discharge from entering sewers, lakes, streams, ponds, estuaries or public water sources. Dispose of in accordance to regulations.

### WASTE DISPOSAL PROCEDURES

Dispose of in accordance to regulations.

**TOXICOLOGICAL INFORMATION**

**Corrosiveness To Skin (Test Species):** Not Irritating

**Corrosiveness to Eyes (Test Species):** Severely Irritating

**This Product Is:** Not sensitizing

**Acute Oral LD<sub>50</sub> (mg/kg):** >2000      **Species:** Rat

**FIRST AID**

**In Case of Eye Contact:** Immediately flush eyes with copious amounts of water for at least 15 minutes while holding eyelids wide apart. Seek medical attention.

**In Case of Skin Contact:** Remove contaminated clothing immediately. Wash affected area with mild soap and water. If irritation persists seek medical attention. Wash contaminated clothing and equipment before reuse.

**In Case of Inhalation:** Move subject to fresh air. If discomfort persists seek medical attention.

**In Case of Ingestion:** If conscious have subject drink one glass of water. Never give anything to an unconscious or convulsing person. Do NOT induce vomiting. Seek immediate medical attention.

**Note To Physician:** Treat according to symptoms, no known specific antidote.

**NOTICE**

The technical information and suggestions for use made herein are based on TRA's research and experience and are believed to be reliable, but such information and suggestions do not constitute a warranty, and no patent liability can be assumed. Since TRA has no control over the conditions under which this product is transported, stored, handled, used or applied, it is TRA's intent that its liability on any basis be limited to the price of the product used.

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