



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

92760-14

Date of Issuance:

7/26/18

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Ultra-Fresh KW-100

Name and Address of Registrant (include ZIP Code):

Thomson Research Associates, Inc.
49 Gervas Drive
Toronto, Ontario

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

John Hebert, Chief
Regulatory Management Branch 1
Antimicrobials Division (7510P)
Office of Pesticide Programs

Date:

7/26/18

2. You are required to comply with the data requirements described in the DCI identified below:

a. Zinc Pyrithione - EPA-HQ-OPP-2014-0158

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 92760-14."

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 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. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated January 2, 2018

If you have any questions, please contact Zebora Johnson by phone at (703) 308-7080, or via email at johnson.zeboraj@epa.gov.

Enclosure: Accepted Label

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

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Users must wear protective eyewear (i.e., goggles, safety glasses, or face shield) and protective clothing, including long sleeved shirt, long pants, socks, chemical resistant gloves, and chemical resistant footwear. Users must also wear a fit tested, NIOSH approved full-face respirator equipped with a combination organic vapor/P-100 pre-filter. When mixing and loading, or cleaning equipment, wear a chemical resistant apron. Remove and wash contaminated clothing immediately after use. Wash thoroughly with soap and water after handling, and before eating, drinking, or using tobacco.

CHEMICAL HAZARDS

Handling conditions may form dust clouds that are susceptible to ignition by electrical (static) discharge. Ground the container and personnel before transferring material. Do not store or mix with strong oxidizing agents or strong (concentrated) acids. In case of contamination do not reseal container. If possible, isolate and store container in open or well-ventilated area. Fumes caused by contamination may be hazardous.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public 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 additional guidance on discharge of effluents containing this product contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE

Do not store above 100°F. Keep container tightly closed when not in use. Do not store with strong oxidizing agents or strong (concentrated) acids.

PESTICIDE DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, 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 Reg. No.: 92760

EPA Est. No.:

**Ultra-Fresh KW-100
INDUSTRIAL MICROBIOSTAT**

Active Ingredient:

Zinc pyrithione, Zinc, 2-pyridinethiol-1-oxide ... 99%

Inert Ingredients: 1%

Total: 100%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

| FIRST AID | |
|--|--|
| If swallowed | -Call a poison control center or doctor immediately for treatment advice. -Have person sip a glass of water if able to swallow. -Do not induce vomiting unless told to do so by a poison control center or doctor. -Do not give anything by mouth to an unconscious person. |
| If on skin or clothing | -Take off contaminated clothing. -Rinse skin immediately with plenty of water for 15-20 minutes. -Call a poison control center or doctor for treatment advice. |
| If in eyes | -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. -Call a poison control center or doctor for treatment advice. |
| If inhaled | -Move person to fresh air. -If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. -Call a poison control center or doctor for further treatment advice. |
| HOT LINE NUMBER: For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents) call the National Pesticide Telecommunications Information Center at 1-800-858-7378. For chemical emergency assistance (spill, leak, fire, or accident), call Chem Trec at 1-800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage. | |

CONTAINER DISPOSAL

Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. Contact state and local waste authorities to obtain additional information on proper container disposal methods.

DIRECTIONS FOR USE

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

Overview: Ultra-Fresh KW-100 is an antimicrobial product for use in manufacturing of treated articles and substances. Ultra-Fresh KW-100 is designed for commercial and industrial use. Ultra-Fresh KW-100 suppresses the growth of bacteria, algae, yeasts, fungi, molds and mildew in treated substrates. Users should contact Thomson Research Associates, Inc. to obtain assistance regarding appropriate concentrations for specific product applications.

Articles and substances containing Ultra-Fresh KW-100 may contain claims related to prevention, avoidance, and or mitigation of unpleasant odors, discoloration, or deterioration caused by antimicrobial activity in or on the treated article or substance, e.g., contains built-in antimicrobial product protection. Articles and substances incorporating Ultra-Fresh KW-100 may not make any public health claims relating to control of antimicrobial activity without first obtaining an EPA registration. Ultra-Fresh KW-100 also does not protect the product's users or others from food borne or disease causing organisms. Technical Bulletins that accompany treated articles and substances intended for further processing should identify the Ultra-Fresh KW-100 content so that finished products do not exceed permitted use levels. For further guidance on treated article claims, please refer to 40 C.F.R. § 152.25(a) and any additional guidance or policies issued by the U.S. Environmental Protection Agency.

Treated articles and substances incorporating Ultra-Fresh KW-100 differ in composition, conditions of use, susceptibility to attack and performance expectations. Dose range tests up to the maximum permitted use rate are recommended to establish the most effective dose prior to commercial use.

Net Contents: 25 kg (55 lbs)

ACCEPTED

07/26/2018 290617

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 92760-14

Protection of FINISHED Products

Ultra-Fresh KW-100 can be used as an antimicrobial additive to protect articles and substances at levels consistent with their listing below.

NON-FOOD Contact USES:

For the Preservation of Textiles Made of Natural and Synthetic Fibers, Fabrics and Blends:

Textiles: To inhibit the growth of microorganisms causing stain, odor, and product degradation, including degradation of physical properties of textiles. Apply at rates such that the finished product contains 0.07 to 0.34% by weight of this product. Refer to the table below for textile products suitable for finishing with this product. Applying Ultra-Fresh KW-100 to textiles via an intermediate formulation of Ultra-Fresh KW-100 and dyes, bonding agents, and other substances requires obtaining an EPA registration for the formulation.

For the In-Can Preservation of Solutions, Emulsions, and Dispersions, and Clay, Mineral, Pigment and Guar Gum Slurries Used in the Manufacture of Adhesives, Caulks, Patching Compounds, Sealants and Grouts:

A dosage of up to 5000 ppm is recommended to control microorganisms causing stain, odor, or product degradation including degradation of physical properties. This dosage is equivalent to 5 lbs. of this product per 1000 lbs. of slurry. It may be added at any time during the formulation procedure.

For the Preservation of Dry Wall, Gypsum, Pearlite, Plaster-Like, Mineral Based, or Cellulose Derived Building Materials Used in the Manufacture of Ceilings, Ceiling Tile, Walls and Partitions:

Addition of up to 4000 ppm of this product (4 lbs. of product per 1000 lbs. of the formulation, i.e. wet slurry) will inhibit the growth of microorganisms causing stain, odor, and product degradation, including degradation of physical properties.

Protection of Finished Products and INTERMEDIATE concentrates:

Ultra-Fresh KW-100 can also be used as an antimicrobial additive in (1) finished products and formulations listed below at levels consistent with their listing; and (2) intermediate concentrations up to 25% by weight (250 lbs. of product per 1000 lbs. (i.e., as a master batch) in substrates intended for further processing in an industrial environment into the finished products and formulations listed below consistent with the permitted finished product concentration. This rate applies only to intermediate manufacturing/industrial uses.

NON-FOOD CONTACT USES:

For the Preservation of Rubber and Plastics Used in the Manufacture of the following Products:

Addition of up to 4000 ppm (4 lbs./1000 lbs. of formulation) of this product can inhibit the growth of microorganisms causing stains, odor or product degradation, including degradation of physical properties in rubber (such as natural, ethylene propylene diene monomer, styrene butadiene, acrylonitrile butadiene, silicone and other elastomer rubber compounds), styrene based polymers (such as acrylonitrile butadiene, polystyrene, styrene acrylonitrile and others) and plastic resins and blends, including but not limited to vinyl chloride-vinyl acetate copolymers, polyurethanes, polyamides, polyolefins, polyesters, polycarbonate, and acrylonitrile copolymers. It can be added at a time during the formulation procedure that will insure uniform distribution throughout the polymer system. Add by pouring or by use of metering equipment.

Plastics, Foam, Films, Coatings and Laminates:

Appliances (non-food contact) and touch surfaces of food contact appliances; Automotive and vehicular parts; Awnings; Bags, including garment, garbage, bedding, and vacuum cleaner bags; Barrier fabric; Bed pans, spit cups, wash basins, commodes; Blinds, window/picture frames; Broom and brush handles and bristles (non-medical), excluding toothbrush bristles, combs; Building materials and components (excluding roofing shingles), residential and commercial siding, trim, wood plastic composite products; Buckets; Carpet

padding, backing and foam underlay; General Purpose Cart and Cart linings or sealants; Collection and storage containers and equipment (including piping systems, silos, tanks and processing vessels); Containers, general purpose and cosmetics; Conveyor belts; Counter and table tops; Credit, debit and membership cards; Crutches, canes, walkers, wheel chairs, transfer benches & boards; Dental & orthodontic appliance cases for retainers, aligners, mouth guards, bleaching trays, toothbrushes; Ear plugs; Films for fabrics; Fixtures, switches, switch/push plates; Floor drains; Floors and Floor covering (vinyl, linoleum and other synthetics); Foam filters; Foam Insulators and weather stripping; Footwear and footwear components; Furniture, Beds; Gas filters; Gaskets; Grease traps; Hand dryers; Industrial equipment; Insulation for wire and cable; Kitchen and bathroom hardware and fixtures: towel bar/racks, toilet brush receptacles, tooth brush receptacles, soap dishes, dish drainer, bath seats, soap dispenser, paper towel dispenser, bath seats, splash guards & screens; Liners; Litter boxes; Luggage; Mats, incl. yoga, exercise, door mats, sink and bathtub mats, placemats, and drain boards; Molding; Mops, mop boards; Packaging materials; Paper products - wipes and tissues (excluding baby and cosmetic wipes), wall covering, towels, book covers); Plastic film; Plumbing supplies and fixtures; Portable toilets; Protective covers, table cloths; Razor handles; Refuse containers: waste baskets, garbage cans, garbage bags; Respirator components; Railings, grab bars, pulls and handles; Rubber/wood flour composite; Rubber gloves (non-surgical); Sharps containers; Shopping carts, baskets and handles; Shower curtains; Sinks, toilets, bathtubs, showers; Sponges; Sports/physical therapy equipment: helmets, handles, weights, exercise machine components, lockers, massage tables; Stuffing for cushions and mattresses; Swimming pool and spa construction material/liners, and equipment; Tape; Tarpaulins, vehicle and boat covers; Tools; Trays, general purpose and medical/dental; Tubing, hoses, pipes (non-potable water and non-food items), drainage & sewer, garden hoses; Water containers, non-potable; Weather stripping; Writing instruments, and office supplies.

Textiles – natural and synthetic fibers, fabrics and blends

Apparel: uniforms, outerwear, gloves, aprons, coats, sportswear, sleepwear, stockings, socks, hosiery, caps, undergarments, jacket linings, shoes, helmet liners, incontinence pad cover stock; Artificial leather, synthetic non-leather materials; Automotive convertible tops; Automotive trunk and interior liners; Awnings; Bags – Laundry, totes, luggage, handbags; Bedding: Blankets, linens/sheets, pillow cases, fiberfill for quilts, pillows and sleeping bags; Book covers; Brush bristles; Carpet/rug fibers and underlay; Cloths and wipes: table cloths, napkins, dish towels, bath towels, wash cloths and wipes (excluding baby and cosmetic wipes); Curtains, draperies; Fibers and fabric; Filters; Footwear and footwear components; Mattress linings, pads, covers and ticking; Mops; Packaging: Ropes and cordage; Sails; Sponges; Tarpaulins, vehicle and boat covers; Tents; Umbrellas; Upholstery and padding: Furniture, automotive, truck, boat and aircraft; Vacuum cleaner bags; Wall coverings.

Heating, Ventilation and Air Control (HVAC) equipment and related materials

Adhesives; Air handlers; Air purifiers; Coils and tubing; Diffusers Drain pans; Duct support mechanisms; Filters; Fins; Fixtures and gaskets; Insulation; Plenums; Rigid and flexible ducts; Air filtration components and air filtration media for industrial, hospital, residential, and commercial; supplemental articles used in the assembly of HVAC systems, such as gaskets, fixtures, sealants, adhesives, and HVAC reinforcing as well as parts and components thereof. These articles could be constructed of fibrous materials (textiles), non-woven, plastic or coated metal material.

Electronics and Appliances

ATM machines, cash registers; Cell phones, covers and cases; Computers, keyboards, mouse; Control cabinets; Liners; Microphones and head phones; Plastic casings for electronics; Plastic components in humidifiers; Public and residential phones; Remote controllers; TV's; Vacuum cleaners; Vending machines (non-food contact).

NOTE: The addition of Ultra-Fresh KW-100 into products classified by FDA as medical devices may require prior clearance by FDA.

DRY FILM/PRODUCT PRESERVATION (for protection of the applied dry film/product itself; does not protect the underlying surface):

For the Dry Product Preservation of Flooring Adhesives, Caulks, Sealants, Grouts, Patching Compounds, Joint Compounds, Glazing Compounds, and Wood Fillers.

For the control of microorganisms causing stains, odor or film degradation, including degradation of the physical properties of the film. Add at a point in the manufacturing process where thorough mixing will take place and uniform distribution will occur.

Caulks, Sealants, Joint/Glazing Compounds, and Wood Fillers - add up to 5000 ppm of this product by weight of the formulation (i.e. 5 lbs. of this product per 1000 lbs. of formulation)

Flooring Adhesives – add up to 2400 ppm of this product by weight of the formulation (i.e. 2.4 lbs. of this product per 1000 lbs. of adhesive).

Grouts and Patching Compounds - add up to 4000 ppm of this product by weight of the formulation (i.e. 4 lbs. of this product per 1000 lbs. of formulation)

For the Dry Film Preservation of Residential, Architectural, and Industrial (non-marine) Paints, Foams, and Coatings, including Powder Coatings:

To inhibit the growth of microorganisms causing stain, discoloration, odor and/or degradation of the physical properties and/or function of the film, add 2,500 – 5,000 ppm of this product at any time during the formulation procedure. This can be achieved, for example, by the addition of 2.5 – 5.0 lbs. of this product to 100 gallons of wet paint with a density of 10 lbs. per gallon. Coatings may be applied to any of the products in the above table.

INDIRECT FOOD CONTACT USES:

Indirect Food Contact Surfaces Made from Polymers:

For the control of microorganisms causing stain, odor, or product degradation including degradation of physical properties in polymers used in food contact, add 750 ppm to a maximum of 1000 ppm of product (0.75 to 1.0 lbs. of this product per 1000 lbs. of polymer) at a point in the manufacturing process where thorough mixing will take place and uniform distribution will occur. Do not incorporate this product into any food contact polymer unless the subject food contact polymer is approved and listed in 21 C.F.R., Parts 174 through 186 (inclusive), or in the United States Food and Drug Administration's "Food Contact Substance Notification System". Restricted to repeat use applications at or below room temperature. Any incorporation of this product into any food contact substance (including but not limited to non-polymer substances) other than an approved and listed food contact polymer is prohibited. For incorporation into treated articles made from, or coated with FDA approved polymers.

Indirect food contact material applications include: Food processing equipment, Conveyor belts, Utensils, Refrigerator, and kitchen appliances, Kitchenware, Cutting boards, Storage containers, Food trays

For the Preservation of Adhesives Used For Food Packaging: For the control of microorganisms causing stain, odor, or product degradation including degradation of physical properties in food packaging adhesives, at use temperatures up to 120°F, and subject to Good Manufacturing Practices, including the conditions specified in 21 C.F.R. 175.105 (a) and (b), add a dosage of 750 ppm to a maximum of 1000 ppm of this product (0.75 to 1.0 lb. of this product per 1000 lbs. of food packaging adhesive) at a point where thorough mixing will take place.