

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

March 27, 2019

William R. Goodwine Director, Regulatory Affairs Janssen PMP, a Division of Janssen Pharmaceutical NV Titusville, NJ 08560-0200

Subject: Notification per PRN 98-10 – Revised Use Description

Product Name: Zinc Pyrion Powder Industrial Microbiostat

EPA Registration Number: 43813-45

Application Date: 01/31/2019 Decision Number: 548952

Dear Mr. Goodwine:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

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 have any questions, you may contact Terria Northern at 703-347-0265 or via email at northern.terria@epa.gov.

Sincerely,

for

Zeno Bain, Product Manager 33 Regulatory Management Branch I Antimicrobials Division (7510P) Office of Pesticide Programs

NOTIFICATION

43813-45

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

03/27/2019

ZINC PYRION® POWDER 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	-Take off contaminated clothing.		
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, and 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.

Net Contents:

EPA Reg. No.: 43813-45 EPA Est. No.:

Manufactured for: JANSSEN PMP

a Division of Janssen Pharmaceutica NV

1125 Trenton-Harbourton Road

Titusville, NJ 08560

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.

ENVIRONMENTAL HAZARD

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.

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.

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.

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: Zinc PYRION Powder Industrial Microbiostat is an antimicrobial product for use in manufacturing of treated articles and substances. Zinc PYRION Powder Industrial Microbiostat is designed for commercial and industrial use. Zinc PYRION Powder Industrial Microbiostat suppresses the growth of bacteria, algae, yeasts, fungi, molds and mildew in treated substrates. Users should contact Janssen PMP to obtain assistance regarding appropriate concentrations for specific product applications.

Articles and substances containing Zinc PYRION 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 Zinc PYRION Powder Industrial Microbiostat may not make any public health claims relating to control of antimicrobial activity without first obtaining an EPA registration. Zinc PYRION Powder Industrial Microbiostat 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 Zinc PYRION 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 Zinc PYRION Powder Industrial Microbiostat 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.

PROTECTION OF FINISHED PRODUCTS

Zinc PYRION Powder Industrial Microbiostat 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:

Laundered Fabrics: To inhibit the growth of microorganisms causing stain, odor, or product degradation, including degradation of physical

properties of fabrics, such as nylon, polypropylene, polyethylene, polyesters, cellulosics and blends of these polymers. Add 3-9 ounces of this product per 1000 lbs. dry weight of fabric, at a sour density of 8.3 pounds per gallon, to reach a use level of 19-56 ppm. Apply to the sour operation and run for a minimum of five minutes. Product is to be used in industrial, military, and related applications. The following are examples of laundered fabric products suitable for incorporation of Zinc PYRION Powder Industrial Microbiostat: hygienic next-to-skin clothing, uniforms, and underwear; bedding (e.g., sleeping bags, blankets, and pillow cases); and protective clothing such as gloves, helmet liners, and footwear components; used in military and related applications. For industrial use only; this use is not intended for residential, commercial, or institutional settings.

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 Zinc PYRION Powder Industrial Microbiostat to textiles via an intermediate formulation of Zinc PYRION Powder Industrial Microbiostat 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:

Zinc PYRION Powder Industrial Microbiostat 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 chloridevinyl 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	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		
Automotive and vehicular parts	Liners		
Awnings	Litter boxes		
Bags, including garment, garbage, bedding, and vacuum cleaner bags	Luggage		
Barrier fabric	Mats, incl. yoga, exercise, door mats, sink and bathtub mats, placemats, and drain boards.		
Bed pans, spit cups, wash basins, commodes	Molding		
Blinds, window/picture frames	Mops, mop boards		
Broom and brush handles and bristles (non-medical), plastic toothbrush handles and heads (excluding bristles), combs	Packaging materials		
Building materials and components (excluding roofing shingles), residential and commercial siding, trim, wood plastic composite products	Paper products - wipes and tissues (excluding baby and cosmetic wipes), wall covering, towels, book covers)		
Buckets	Plastic film		
Carpet padding, backing and foam underlay	Plumbing supplies and fixtures		
General Purpose Cart and Cart linings or sealants.	Portable toilets		
Collection and storage containers and equipment (including piping systems, silos, tanks and processing vessels)	Protective covers, table cloths		
Containers, general purpose and cosmetics	Razor handles		
Conveyor belts	Refuse containers: waste baskets, garbage		

	cans, garbage bags
Counter and table tops	Respirator components
Credit, debit and membership cards	Railings, grab bars, pulls and handles
Crutches, canes, walkers, wheel chairs, transfer benches & boards	Rubber/wood flour composite
Dental & orthodontic appliance cases for retainers, aligners, mouth guards, bleaching trays, toothbrushes	Rubber gloves (non-surgical)
Ear plugs	Sharps containers
Films for fabrics	Shopping carts, baskets and handles
Fixtures, switches, switch/push plates	Shower curtains
Floor drains	Sinks, toilets, bathtubs, showers
Floors and Floor covering (vinyl, linoleum and other synthetics)	Sponges
Foam filters	Sports/physical therapy equipment: helmets, handles, weights, exercise machine components, lockers, massage tables
Foam Insulators and weather stripping	Stuffing for cushions and mattresses
Footwear and footwear components	Swimming pool and spa construction material/liners, and equipment
Furniture, Beds	Tape
Gas filters	Tarpaulins, vehicle and boat covers
Gaskets	Tools
Grease traps	Trays, general purpose and medical/dental
Hand dryers	Tubing, hoses, pipes (non-potable water and non-food items), drainage & sewer, garden hoses
Industrial equipment	Water containers, non-potable
Insulation for wire and cable	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	Footwear and footwear components	
Automotive convertible tops	Mattress linings, pads, covers and ticking	
Automotive trunk and interior liners	Mops	
Awnings	Packaging	
Bags – Laundry, totes, luggage, handbags	Ropes and cordage	
Bedding: Blankets, linens/sheets, pillow cases, fiberfill for quilts, pillows and sleeping bags	Sails	
Book covers	Sponges	
Brush bristles	Tarpaulins, vehicle and boat covers	
Carpet/rug fibers and underlay	Tents	
Cloths and wipes: table cloths, napkins, dish	Umbrellas	

towels, bath towels, wash cloths and wipes	
(excluding baby and cosmetic wipes).	
Curtains dranaries	Upholstery and padding: Furniture,
Curtains, draperies	automotive, truck, boat and aircraft
Fibers and fabric	Vacuum cleaner bags
Filters	Wall coverings

Heating, Ventilation and Air Control (HVAC) equipment and related materials		
Adhesives	Filters	
Air handlers	Fins	
Air purifiers	Fixtures and gaskets	
Coils and tubing	Insulation	
Diffusers	Plenums	
Drain pans	Rigid and flexible ducts	
Duct support mechanisms		
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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	Plastic casings for electronics	
Cell phones, covers and cases	Plastic components in humidifiers	
Computers, keyboards, mouse	Public and residential phones	
Control cabinets	Remote controllers	
Liners	TV's	
Microphones and head phones	Vacuum cleaners	
	Vending machines (non-food contact)	

NOTE: The addition of Zinc PYRION Powder Industrial Microbiostat 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.

<u>Caulks, Sealants, Joint/Glazing Compounds, and Wood Fillers</u> - 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)

<u>Flooring Adhesives</u> – 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).

<u>Grouts and Patching Compounds</u> - 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.

NOTICE OF WARRANTY

Janssen PMP, a Division of Janssen Pharmaceutica NV warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Janssen PMP. To the extent permitted by law, Janssen PMP disclaims any liability for consequential, special or indirect damages resulting from the use, handling, application, storage or disposal of this product or for damages in the nature of penalties, and the buyer and user waive any right that they may have to such damages. **To the extent consistent with applicable law, Janssen PMP makes no warranties of merchantability or of fitness for a particular purpose or any other express or implied warranty except as stated above.**

®PYRION is a registered trademark of Janssen Pharmaceutica NV

Ver. 31 January 2019