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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

HeiQ Materials AG
1369 Gwynedale Way
Lansdale, PA 19446
Attn: Renata R. Gaughan

DEC 17 2013

Subject: HEIQ AGS-20 (EPA Reg. No. 85249-1)
Amendment Letter dated December 8, 2013

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) is acceptable.

In response to the decision of the Ninth Circuit Court of Appeals in NRDC v. EPA, No. 12-70268 (Nov. 7, 2013), and your application, the Agency is approving the new method of application, surface coating (at no more than 19 ppm (by weight) of silver), and revised labeling. EPA is approving this request on the basis of a reduced maximum application rate for the surface coating application method and more limited set of textiles and fibers that may be treated, as compared to the parameters for the application that was approved by the Agency on December 1, 2011. The Agency believes these changes will address the concerns the court expressed over the aggregate margin of exposure (MOE) to AGS-20 surface coated treated articles.

The following label changes are acceptable:

- Coating application method with a maximum application rate of 19 ppm
- Reduced set of textiles and fibers that are allowed to be treated with AGS-20
- Updated Environmental Hazard language

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling.

If you have any questions concerning this letter, please contact Seiichi Murasaki at murasaki.seiichi@epa.gov or (703) 347-0163.

Sincerely,

A handwritten signature in black ink, appearing to read "John Hebert".

John Hebert
Branch Chief
Regulatory Management Branch 1
Antimicrobials Division (7510P)

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HeiQ[®] AGS-20

An antimicrobial additive designed to withstand high temperatures in the manufacture of yarns, filaments, fibers, fiber masterbatches, textile finishes, textile coatings and knitted, woven or nonwoven textile fabrics. Intended for commercial and industrial use, in manufacturing, formulating and fabricating of treated article products specified in the use directions.

Active Ingredient: Silver *	19.3 %
Other ingredients	80.7 %
TOTAL:	100.0 %

* includes particles in the size range between 1 to 100 nm.

ACCEPTED

DEC 17 2013

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. **85249-1**

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

WORKER PROTECTION

Workers who mix, load, and apply (i.e., handling) HeiQ[®] AGS-20 powder shall do so using engineering controls such as closed system loading or local exhaust ventilation. HeiQ[®] AGS-20 powder cannot be applied using open pouring methods. The engineering controls shall provide, at the least, a 10 fold reduction in the concentration of airborne HeiQ[®] AGS-20 powder as compared to the HeiQ[®] AGS-20 powder concentration generated without engineering controls. In addition, workers exposed to powder are required to wear personal protective equipment including a full-face respirator with high-efficiency filter cartridges (i.e. P100), gloves, a long-sleeve shirt, long pants, shoes plus socks, and overalls or a Tyvek[®] suit during powder handling. The gloves shall be chemically resistant to all of the components of the textile fiber master batch or coating formulations to which the HeiQ[®] AGS-20 powder is added.

FIRST AID

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. Call a poison center or doctor for treatment advice.

IF INHALED: Move the 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.

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 by a poison control center or doctor. Do not give anything to an unconscious person.

IF ON SKIN: 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on (product, use, etc.) call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and birds. 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 EPA.

DIRECTIONS FOR USE

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

This product may not be used for any applications involving food contact, food packaging, or drinking water.

HeiQ® AGS-20 is an antimicrobial additive for commercial and industrial use. It is designed to be incorporated into materials and intermediate polymer and coating solutions during the manufacturing process to impart durable antimicrobial and preserving activity to manufactured products. The product **suppresses** the growth of odor, stain, discoloration, degradation or contamination causing microbes. If microbial activity in the manufacturing product could lead to unpleasant odors, discoloration, deterioration or contamination of the product, then such claim may be made for the manufactured product. Manufactured products incorporating **HeiQ® AGS-20** may not make any public health claims relating to antimicrobial activity without first obtaining an EPA registration for the manufactured product. When incorporated into treated articles, **HeiQ® AGS-20** does not protect users of any such manufactured product or others against food-borne or disease-causing bacteria, viruses, germs or other disease-causing organisms.

HeiQ® AGS-20 may be used in materials and intermediate polymer and coating and finishing solutions that may be incorporated into the treated articles listed below. For coating and finishing-type applications using solutions, the final textile article may contain a maximum of 0.0019% (by weight) of silver. For all other applications, the final textile article may contain from 0.001% to 0.01% (by weight) of silver. Contact HeiQ Materials AG to determine the appropriate amount of **HeiQ® AGS-20** for individual finished products.

NON-FOOD CONTACT USES

HeiQ® AGS-20 may be incorporated into manufactured products listed below for non-food contact uses.

Textile Fibers and Fiber Coatings and Finishes: For use in/on natural and synthetic fibers and fabrics, including nonwovens fabrics, only in curtains; draperies; carpet underlay; mops; bags; wall covering fabrics; adult sleeping bags; filters; packaging; conveyor belts; automotive, aviation and truck upholstery; rear decks; trunk liners; convertible tops and interior liners; umbrellas; clothing for adults (such as outerwear; uniforms; work gloves; aprons; sportswear; stockings; sport socks; hosiery; boxer briefs; tee-shirts; inner liners for jackets); shoes; helmets; artificial leather; book covers; cloth for sails; ropes; tents and other outdoor equipment; tarps, awnings.

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STORAGE AND DISPOSAL

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

Pesticide Storage: Do not store in areas accessible to children. Keep containers covered and away from water and excessive moisture or humidity. Store at ambient temperatures.

Pesticide Disposal: Wastes from use of this product may be disposed of on site or at an approved disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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 STATEMENT

HeiQ Materials AG warrants that this product conforms to the chemical description on the label. HeiQ Materials AG makes no warranties of merchantability or fitness for a particular purpose or any other expressed or implied warranty except as stated above.

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