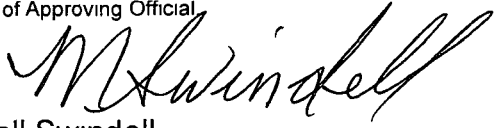


88165-4

07/04/2012

1/15

 U S ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Antimicrobials Division (7510C) 1200 Pennsylvania Avenue NW Washington D C 20460 NOTICE OF PESTICIDE ☒ Registration ☐ Reregistration (under FIFRA as amended)	EPA Reg Number 88165 4	Date of Issuance JUL - 4 2012
	Term of Issuance	
	Name of Pesticide Product Agion Copper Antimicrobial Type ACU	
Name and Address of Registrant (include ZIP Code) Copper Development Association 260 Madison Avenue New York New York 10016 2401		
Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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/reregistered 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 sec 3(c)(7)(B) provided that you 1 Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data and submit acceptable responses required for re registration of your product under FIFRA section 4 2 Make the labeling changes listed below before you release the product for shipment a Add the phrase EPA Registration Number 88165 4		
Signature of Approving Official  Marshall Swindell Product Manager 33 Regulatory Management Branch I Antimicrobials Division (7510P)		Date JUL - 4 2012

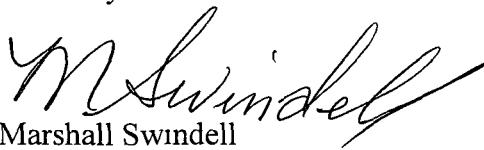
The Confidential Statement of Formula dated June 21 2012 is acceptable

3 Submit three (3) copies of the final printed label prior to releasing this product for sale

A stamped copy of the labeling is enclosed for your records

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA sec 6(e) or as may be deemed appropriate by the Agency as provided for in Condition 1 Your release for shipment of the product constitutes acceptance of these conditions

Sincerely

A handwritten signature in black ink, appearing to read "M. Swindell", with a stylized flourish at the end.

Marshall Swindell
Product Manager 33
Regulatory Branch I
Antimicrobials Division (7510P)

Enclosure (Stamped Labeling)

Agion® Copper Antimicrobial Type ACU

A preservative and bacteriostatic agent for use in the
manufacture of polymer, plastic, latex products
For commercial and industrial use only

Active Ingredient

Copper	6 1 %
Other Ingredients	93 9 %
Total	100 0 %

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSERT LABEL FOR PRECAUTIONARY STATEMENTS

Supplied by
Sciessent LLC
60 Audubon Road
Wakefield, MA 01880

EPA Registration No 88165 U
EPA Establishment No 71227 JPN 001

Net Wt XXXX

Lot No XXXXXXXXXX

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUL 4 2012

Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No 88165-4

Directions for Use

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

For all uses listed*

- * Do not incorporate this product into any food contact polymer unless the subject food contact polymer is approved and listed in 21 CFR, Parts 174 through 186 (inclusive), or in the United States Food and Drug Administration's Food Contact Substance Notification System. Any incorporation of this product into an approved and listed food contact polymer must comply with the specific use conditions listed in 21 CFR, Parts 174 through 186 (inclusive), or in the United States Food and Drug Administration's Food Contact Substance Notification System, for such food contact polymer. 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 applications involving direct or indirect food or human drinking water contact, Agion Copper Antimicrobial Type ACU must be used with an FDA approved polymer or coating. Non-food and non drinking water contact applications can use either FDA or non-FDA approved coatings.
- * This product may be used for the following human drinking water contact uses:
 - water filter components and housing units
 - water bottle dispensers and components
 - water dispensers
 - ice machine trays
 - ice machine bins
 - ice machine water hoses
 - ice dispensers and other ice machine components
 - water bottles
 - cups
 - water storage vessels
- * This product may be incorporated into food and water bowls, dishes and other containers used by domestic animals. Do not use for any food or drinking water applications involving non domestic animals.

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with COMMENTS
in EPA Letter Dated.

JUL 4 2012
Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
equipment under EPA Reg No 88165-4

Agion® Copper Antimicrobial Type ACU is an antimicrobial additive to be used by compounding into many polymeric materials. It is designed to be incorporated during the manufacturing process to impart antimicrobial activity to the manufactured products. **Agion® Copper Antimicrobial Type ACU** suppresses the growth of algae, mold, mildew, fungi and bacteria which cause unpleasant odors, discoloration, staining, deterioration or corrosion only. No finished product incorporating **Agion® Copper Antimicrobial Type ACU** may make any public health claims relating to antimicrobial activity without first obtaining an EPA registration for the finished product which permits such claims. When incorporated into treated articles, this product does not protect users of any such treated article or others against food borne or disease causing bacteria, viruses, germs or other disease causing organisms.

Types of Finished Products

Plastics - including films, sheets, slabs, and molded plastic parts

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.3% for bulk plastics. Contact Sciessent LLC to determine the appropriate amount of Agion® Copper Antimicrobial Type ACU for individual finished products.

Food contact* and non food contact uses (in all food contact cases, when the article itself is a FDA approved polymer)

Packaging
gaskets
general purpose containers
food and drink containers
food trays and covers
sponges
tubing
brush bristles (including personal care grooming items toothbrushes) and cosmetic brushes
liners
non woven fabrics
plastic sheeting for construction and agricultural applications
appliances and equipment
kitchen and food processing utensils and supplies
cutting boards
countertops
sinks
tiles
dishes cups bottles
conveyor belts
food processing equipment (including slicers formers juicers washers canners freezers refrigerators shelving cookers grinders choppers peelers and countertops)
beverage processing equipment (including mixers, transfer equipment pumps bottlers canners dispensers and fermenters)
building materials and components (including walls hardware floors ceilings and components thereof for kitchen, commercial and industrial applications)

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in EPA Letter Dated
JUL 4 2012
Under the Federal Insecticide
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amended for the pesticide
registered under EPA Reg No 88165-4

Non food contact uses only

Automobile Parts	Shower curtains
Mats	Protective Covers
Waste containers	Brush handles
Mops	Vacuum cleaner bags
Plumbing supplies and fixtures	Drain pan liners
Siding for housing	Kitchen and bathroom hardware
Flooring	Floor coverings
Insulation for wire and cable	Insulators
Indoor and outdoor furniture	Plastic building materials
Spas bathtubs showers filters and components thereof	Garbage bags and gas bags cans
Office equipment and supplies (including binders filing and storage systems pens pencils markers printers facsimile machines desk accessories computers keyboards mice	Telephones mobile devices head phones head sets and accessories
	Cameras and imaging equipment

scanners and printers)
Medical devices, equipment and supplies

Fibers – including cotton, rayon and synthetically derived fibers

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.5% for fibers. Contact Sciescent LLC to determine the appropriate amount of Agion® Copper Antimicrobial Type ACU for individual finished products.

Food contact* and non food contact uses (in all food contact cases, when the article itself is a FDA approved polymer, or as a FDA approved polymer coating on an article)

Synthetic and Natural Fibers

napkins tablecloths and wiping cloths

bags

brush bristles (including personal care grooming items toothbrushes and cosmetic brushes)

filters

clothing apparel (including uniforms outerwear gloves aprons coats and shoes)

sponges

packaging (including bags sacks wraps cushion and absorbent materials and containers)

conveyor belts

kitchen commercial and industrial wipes and fabrics

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in EPA Letter Dated

Non food contact uses only

Synthetic and Natural Fibers

Paper for gypsum board

Paper paperboard composite building materials

Interior furnishings

mattress cover pads and filling

pillow covers

sheets

blankets

fiberfill for quilts and pillows

curtains

draperies

carpet and carpet underlay

rugs

upholstery

mops

towels

wall covering fabrics

cushion pads

sleeping bags

Apparel –

umbrellas

outerwear

sportswear

sleepwear

stockings

socks and hosiery

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Transportation –

automotive and truck upholstery

carpeting

rear decks

trunk liners

convertible tops

interior liners

Industrial and Other Household Items

artificial leather

filters

book covers

mops

cloth for sails

ropes

tents and other outdoor equipment

tarps

awnings

drain pan liners¹

caps

undergarments

inner liners for jackets

trim for outerwear and garments

medical devices equipment and supplies

Coatings, Films and Laminates

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.5% for coatings. Contact ScieScent LLC to determine the appropriate amount of Agion® Copper Antimicrobial Type ACU for individual finished products. Types of coatings include water borne, solvent borne, 100% solids, radiation cure, liquid and powder emulsion, starch, cellulosic, lacquer, thermoset, thermoplastic, thermal spray coatings including pre-dispersions and components thereof.

Food contact* and non food contact uses (in all food contact cases, when the article itself is a FDA approved polymer, or as a FDA approved polymer coating, film or laminate on an article)

packaging

paper products (including wipes and tissues)

natural and synthetic fibers and fabrics

sinks

countertops

cutting boards

dishes

cookware

general purpose containers

kitchen, commercial and industrial utensils and supplies

collection and storage equipment (including conveyor belts, piping systems, silos, tanks and process vessels)

appliances and food processing equipment (including slicers, formers, juicers, washers, canners, freezers, refrigerators, shelving, cookers, grinders, choppers, peelers and countertops)

beverage processing equipment (including mixers, transfer equipment, pumps, bottlers, canners and fermenters and dispensers)

building materials and components (including walls, hardware, floors, ceilings and components thereof for kitchen, commercial and industrial applications)

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with COMMENTS
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JUL 4 2012

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Non food contact uses only

Building Materials (including gypsum board, insulation, cellulose or fiberglass ceiling tile and polymer flooring)

Heating, Ventilation and Air Conditioning equipment and related materials (including insulation, ducts, heat exchangers, drain pans, air filters, air purifiers, diffusers and parts and components thereof)

Industrial equipment

Furniture

Automotive and vehicular parts

Packaging

Siding

¹ For HVAC and related uses refer to Agion® Copper Antimicrobial Type ACU Technical Bulletin No. 1 – Technical Bulletin for Agion® Copper Antimicrobial Type ACU Polymeric Coating for Heating, Ventilation and Air Conditioning Applications

Roofing
Shingles

Industrial equipment
Medical devices equipment and supplies

Adhesives and Sealants

The additive may be incorporated into the finished product at up to 5.0% by weight or at least 0.5% for adhesives and sealants. Contact Scissent LLC to determine the appropriate amount of Agion® Copper Antimicrobial Type ACU for individual finished products.

Food contact* and non food contact uses (in all food contact cases, when the article itself is a FDA approved polymer incorporated into FDA approved adhesives or sealants)

plumbing adhesives
pipe sealants and insulating materials
grout and joint compound for countertops building materials and components and food and beverage related equipment

Non food contact uses only

Adhesives joint compound and grout for gypsum board ceramic tile wood paper cardboard rubber and plastic
Medical devices equipment and supplies

Miscellaneous Applications

The additive may be incorporated into the finished product at up to 5.0% by weight. Contact Scissent LLC to determine the appropriate amount of Agion® Copper Antimicrobial Type ACU for individual finished products.

Food contact* and non food contact uses (in all food contact cases, when the article itself is a FDA approved polymer or coating)

Interior paints and coatings
Stucco
Plaster
Leather
Medical devices equipment and supplies

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in EPA Letter Dated

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Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No

88165-4

PRECAUTIONARY STATEMENTS

Hazards to Humans Caution Causes moderate eye irritation Avoid contact with skin, eyes and clothing Prolonged contact with this product may cause skin discoloration Wash thoroughly with soap and water after handling

FIRST AID	
If on skin or clothing	• Take off contaminated clothing • Rinse skin immediately with plenty of water of 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 by mouth-to-mouth, if possible • Call a poison control center or doctor for further treatment advice
If swallowed	• Call 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 the poison control center or doctor • Do not give anything by mouth to an unconscious person
Have the product container or label with you when calling a poison control center or doctor, or going for treatment	

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 product dry and containers covered during storage, store below 130°F

Container Disposal Nonrefillable container Do not reuse or refill inner plastic bag or outer steel can **Inner Plastic Bag** Completely empty plastic bag into application equipment Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning If burned, stay out of smoke **Outer Steel Can** Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities

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

Under the Federal Insecticide
Fungicide and Rodenticide Act as
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registered under EPA Reg No

Agion® Copper Antimicrobial Type ACU
Pending as EPA Reg No 88165 U
Rev January 30 2012
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Agion® Copper Antimicrobial Type ACU Technical Bulletin No 1

TECHNICAL BULLETIN FOR AGION COPPER ANTIMICROBIAL TYPE ACU POLYMERIC COATING FOR HEATING, VENTILATION AND AIR CONDITIONING APPLICATIONS

Read the product label first Refer to the product label and MSDS for complete directions on safety precautions storage and handling

Agion® Copper Antimicrobial Type ACU (Agion) contains 6 1% copper by weight in a natural zeolite carrier Agion is registered by the U S Environmental Protection Agency for use in plastics fibers coatings films laminates adhesives and sealants In coatings applied to Heating Ventilation and Air Conditioning (HVAC) systems and components thereof the antimicrobial additive is incorporated into a coating to preserve keep odor free and operational the components of the HVAC system These applications apply only during the original manufacture of HVAC systems and components and are not for use on existing or in place HVAC systems and components This product is compatible with the substrates and products listed under Approved Uses

Incorporate this product into coatings that are intended for application to the surface of articles The purpose of the coating is to preserve keep odor free and operational the components of the HVAC system The purpose of Agion® in the coating is to inhibit the growth of mold mildew fungus and bacteria that cause odor discoloration staining deterioration or corrosion on the surface of the coating film The product protects the applied coating itself from microorganism attack not the underlying substrate This product is not intended for remediation prevention or control of existing or anticipated public health related microorganisms

Product Description

Agion® Copper Antimicrobial Type ACU (Agion) contains 6 1% copper by weight in a natural zeolite carrier

Claims

When incorporated into a coating the Agion will inhibit the growth of mold mildew fungus and bacteria that cause odor discoloration staining deterioration or corrosion on the surface of the coating film The product protects the applied coating itself from microorganism attack not the underlying substrate

Important for HVAC Articles Agion does not protect building occupants from disease causing bacteria viruses mold or mildew or airborne allergens Always clean and maintain the heating ventilation and air conditioning system in accordance with the manufacturer s directions

Technical Data

Active Ingredient	6 1% Copper
Color	Light Blue

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JUL 4 2012
Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
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Physical State	Dry Powder
Flammability	Not Flammable
Bulk Density	0.42 g/ml @ 25 C
Specific Gravity	2.15 ± 0.1 g/cm ³
pH	9.10 (1g Agion/100 ml water)
Thermal Stability	800 C

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in EPA Letter Dated.
JUL 4 2015
Under the Federal Insecticide,
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registered under EPA Reg. No. 88165-4

Approved Uses

For use in polymeric coatings and adhesives including aqueous aqueous/solvent solutions protectorant wax or silicone technology to treat –

Heating Ventilation and Air Conditioning systems and related materials (including insulation air handlers ducts heat exchangers drain pans and liners thereof air filters air purifiers diffusers humidifiers and parts and components thereof)

How to Use Agion

Surface Preparation

Metal Surfaces Apply only to clean dry surfaces free of all dirt grease or impurities. Abrade all surfaces to remove all surface rust and corrosion products and wash the intended surface with the appropriate cleaner, rinse and allow to dry thoroughly. Use surface pretreatments or primer coatings as required.

Painted Surfaces Apply only to clean dry surfaces free of all dirt grease or impurities. Wire brush painted surfaces removing all flaking loose or chalking material. Sand all glossy surfaces to roughen the entire area. Use surface pretreatments or primer coatings as required.

Mixing

Incorporate Agion directly into formulations developed for the coating of heating ventilation and air conditioning system applications. Maintain constant agitation of the coating during the application process.

Application

Following the surface preparation steps, various coating technologies may be used to apply the Agion compound, including automated dip flow roll or electro deposition coating and manual brush roller or spray coating.

Automated Processes

Circulate Agion and coating via a closed system maintaining agitation. Ensure excess coating applied via dip flow or roll coating technologies is collected and returned to the system. Maintain constant solids concentration by the addition of fresh properly mixed coating to make up for usage. Minimize evaporation of the coating by maintaining covers on storage vessels. Utilize appropriate drying conditions including infrared or conventional ovens to properly cure coating incorporating the Agion compound. These processes must be conducted in accordance with federal state and local air pollution laws and regulations.

Apply coating to all surfaces at a rate to achieve a dry film thickness of approximately five (5) to twenty five (25) microns

See handling instructions below for operator exposure requirements

Manual Processes

Agion may be incorporated into polymer adhesives and coatings and applied manually by brush roller spray or other coating technology. These products may be easily applied by high volume low pressure (HVLP) spray equipment commonly used throughout the industry. These processes must be conducted within a downdraft spray booth permitted and operating in accordance with federal, state and local air pollution laws and regulations.

Apply coating to all surfaces at a rate to achieve a dry film thickness of approximately five (5) to twenty five (25) microns

See handling instructions below for operator exposure requirements

Contact Sciessent LLC to confirm optimum application technology and drying conditions such as time and temperature for each application before use in a commercial process

Clean up

Use fresh water or solvent to clean brushes and equipment before product dries

Handling Instructions

Wear goggles or face shield and rubber gloves when handling the dry powder

Airborne Exposure Limits pursuant to OSHA 1910.1000 Table Z-3 for Mineral Dust

<u>Permissible Exposure Limit (PEL)</u>	
Respirable fraction	5 mg/m ³
Total dust	15 mg/m ³

As with any fine powder, avoid generating dust

Ventilation System

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is preferred to help control the emissions of the contaminant at the source, preventing its dispersion through the work area.

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded, a half face respirator with filter appropriate for 1 micron dust may be worn per appropriate guidelines.

ACCEPTED
with COMMENTS
in EPA Letter Dated
JUL 4 2011
Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended for the pesticide
registered under EPA Reg No. 28165-4

PRECAUTIONARY STATEMENTS

Hazards to Humans Caution Causes moderate eye irritation Avoid contact with skin, eyes and clothing Prolonged contact with this product may cause skin discoloration Wash thoroughly with soap and water after handling

FIRST AID	
If on skin or clothing	• Take off contaminated clothing • Rinse skin immediately with plenty of water of 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 by mouth to-mouth, if possible • Call a poison control center or doctor for further treatment advice
If swallowed	• Call 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 the poison control center or doctor • Do not give anything by mouth to an unconscious person
Have the product container or label with you when calling a poison control center or doctor, or going for treatment	

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 product dry and containers covered during storage, store below 130°F

Container Disposal Nonrefillable container Do not reuse or refill inner plastic bag or outer steel can **Inner Plastic Bag** Completely empty plastic bag into application equipment Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning If burned, stay out of smoke **Outer Steel Can** Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities

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

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for disposal on site
in EPA Letter Dated
7/1/01

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Fungicide and Rodenticide Act as
amended for the pesticide
EPA Registration No. 88165-0
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MSDS Information

Refer to the Material Safety Data Sheet for this product for complete handling and safety information

Transportation Information

Agion is not regulated as a hazardous material under DOT

Regulatory Information

Agion is registered by the U S Environmental Protection Agency as EPA Reg No 88165 U

For technical assistance or questions contact

Sciessent LLC
60 Audubon Road
Wakefield MA 01880

Questions? 781 224 7100

ACCEPTED
with COMMENTS
in EPA Letter Dated
JUL 1 2016

Under the Federal Insecticide
Fungicide and Rodenticide Act as
amended or the pesticide
registered under EPA Reg No 88165-4

Important Warranty and Disclaimer Information

Sciessent LLC warrants that each of its products will be manufactured in accordance with Sciessent's specifications in effect on the date of manufacture. **SCIESSSENT MAKES NO OTHER WARRANTIES AND EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If a product fails to meet this limited warranty, purchaser's sole and exclusive remedy is replacement of the product or, at Sciessent's option, refund of the purchase price. **SCIESSSENT'S ACCEPTANCE OF ANY ORDERS FOR THIS PRODUCT IS EXPRESSLY CONDITIONAL UPON PURCHASER'S ASSENT TO THE TERMS ON THE APPLICABLE INVOICE.**

ACCEPTED
with COMMENTS
in EPA Letter Dated
JUL 4

Under the Federal Insecticide
Fungicide and Rodenticide Act as
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registered under EPA Reg. No.