

82523-1

04/15/2009

1/7

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



Office of Pesticide Programs

David Swain
Agent for Aeris Environmental Ltd.
c/o SRC Consultants, Inc.
P.O. Box 1014
Columbia City, IN 46725

APR 15 2009

FILE COPY

Subject: AerisGuard Bioactive Coil Treatment
EPA Registration No. 82523-1
Application Date: February 27, 2009
Receipt Date: March 3, 2009

Dear Mr. Swain:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable:

- Revision of company address
- Revision to include correct company name
- Revision of Storage and Disposal Statements per PR notice 2007-4

Comment:

The precautionary language indicates that the eyes triggered the signal word "CAUTION." Therefore, you must revise the First Aid Statement so that the "If in Eyes" route of exposure is listed first.

General Comments:

A stamped copy of the accepted labeling is enclosed. Submit 1 copy of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions or comments concerning this letter, please contact Wanda Henson at (703) 308-6345.

Sincerely,

Emily H. Mitchell
Product Manager (32)
Regulatory Management Branch II
Antimicrobials Division (7510P)

2
7

AERISGUARD™
BIOACTIVE COIL TREATMENT
FOR TREATMENT OF AIR CONDITIONING HEAT EXCHANGE COILS

- [Effectively] [Controls] [Prevents] [Inhibits] the growth of [odor causing fungi][mildew][mold and mildew] [and odor causing bacteria] on HVAC coils
- Normally, infrequent application (6 months to 1 year) will provide effective control
- [This product is a] [Fungistat] [mildewstat] [bacteriostat] [deodorizer]
- Effective against mold and mildew [and odor causing bacteria]
- Effectively controls mold [and odor causing bacteria] on HVAC coils
- For commercial, industrial and residential application by a service contractor
- Non-corrosive
- Reduces energy consumption
- Improves HVAC efficiency
- [Contains a] Color additive for visual identification

ACTIVE INGREDIENT:

5-chloro-2-(2,4 dichlorophenoxy) phenol.....	0.69%
INERT INGREDIENTS	99.31%
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN
CAUTION

See back panel for first aid and additional precautionary statements

NET CONTENT:

Aeris Environmental LTD
[ABN 19 093 977 336]
5/26 – 34 Dunning Ave.
Rosebery NSW 2018
Australia

EPA Reg. No. 82523-1
EPA Est. No.

ACCEPTED
with COMMENTS

EPA Letter Dated: [Re-Order Code: HHCT9501]

APR 15 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended for the pesticide,
registered under EPA Reg. No. 82523-1

Note: Bracketed [] information is optional text. Text separated by a comma (,) denotes-and/or-options. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

ACCEPTED
with **COMMENTS**
EPA Letter Dated:

Directions for Use

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

PLEASE REFER TO AERIS ENVIRONMENTAL STANDARD OPERATING PROCEDURE SOP 002 FOR FULL DIRECTIONS FOR USE.

APR 15 2009
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 82523-1

AerisGuard™ commercial products are for use by Aeris Accredited Applicators only.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • 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
If in eyes	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • 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 inhaled	<ul style="list-style-type: none"> • 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

Wear goggles, gloves and half mask incorporating Class 2 (organic and gas vapour) filter.

DO NOT SMOKE DURING USE. Ensure all open electrical equipment in the immediate area is off.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into lakes, streams, 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

Note: Bracketed [] information is optional text. Text separated by a comma (,) denotes-and/or-options. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

4
7

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.

PHYSICAL HAZARD:

Flammable. Keep away from heat, open flame and sources of ignition.

STORAGE AND DISPOSAL: Store in tightly closed containers in cool, dry, isolated and well ventilated areas away from heat, sources of ignition and incompatible products. Store away from oxidizing agents. Keep container closed when not in use – check regularly for leaks. Do not eat, drink or smoke in areas of use or storage. Observe all regulations and precautions for the storage and handling of flammable products. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Completely empty package. Triple rinse with water. Offer for recycling or reconditioning if available. Dispose of package in a sanitary landfill or incinerate if allowed by State and local authorities. If burned stay out of smoke. Do not reuse or refill empty container.

{New graphic}



ACCEPTED
with COMMENTS
EPA Letter Dated:

APR 15 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 82523-1

AERIS ENVIRONMENTAL LTD			
BACT TREATMENT OF HEAT EXCHANGE COILS			SOP NO 002
PREPARED BY	CHECKED BY	SUPERCEDES <i>{version may change}</i>	ISSUE DATE
M Heng	S Kritzer	Version 3.7 USA	<i>{insert appropriate date}</i>
STANDARD OPERATING PROCEDURE			Page 1 of 3

5
7

AerisGuard™ Bioactive Coil Treatment (BACT)
EPA Reg. No. 82523-1

1. SCOPE AND PURPOSE

To outline the direction for use of AerisGuard™ Bioactive Coil Treatment (BACT) on air conditioning heat exchange coils.

ACCEPTED
with COMMENTS
EPA Letter Dated:
APR 15 2009

2. USUAL SAFETY PRECAUTIONS

Read the precautionary statements on the product label.

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 82523

Ensure that the unit is "off line" during the entire process. This must be done by arrangement with the engineering staff at the site if necessary.

When isolating HVAC electrical energy systems adhere strictly to requirements of Occupational Safety and Health Standard 1910.147, entitled "The Control of Hazardous Energy (lockout/tagout)."

Avoid contact with eyes or clothing. Wear goggles, gloves, and a half face mask incorporating Class 2 (organic and gas vapour) filter.

NOTE: Other safety equipment may be required. Occupational Health & Safety requirements can vary geographically or by project nature.

Ensure adequate ventilation is available to reduce the concentration of vapors within the area being treated. Extinguish all forms of ignition sources such as pilot lights and boilers in proximity to the treatment area.

UNDER NO CIRCUMSTANCES IS SMOKING PERMITTED IN OR WITHIN 100 FEET OF THE HVAC FACILITY BEING TREATED.

3. PRINCIPLE OF METHOD

The method is based on the application of AerisGuard BACT to all surfaces of a heat exchange coil following cleaning with an appropriate non-corrosive coil cleaner. We recommend AerisGuard™ Advanced Coil Cleaner *{other product names may be used in addition to or in place of this product}*. The AerisGuard BACT treatment provides protection against the growth of odor causing bacteria, odor causing fungi, mold and mildew on HVAC heat exchange coils. Normally, infrequent application (6 months to 1 year) will provide effective control. The treatment is classed as a bacteriostat, fungistat and mildewstat.

Note: Bracketed [] information is optional text. Text separated by a comma (,) denotes-and/or-options. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

AERIS ENVIRONMENTAL LTD			
BACT TREATMENT OF HEAT EXCHANGE COILS			SOP NO 002
PREPARED BY	CHECKED BY	SUPERCEDES <i>{version may change}</i>	ISSUE DATE
M Heng	S Kritzier	Version 3.7 USA	<i>{insert appropriate date}</i>
STANDARD OPERATING PROCEDURE			Page 2 of 3

6
7

Prior to reapplication, the heat exchange coils must be inspected and found to be free of accumulated soil. If soil or growth is found, the cause should be determined and corrected and then the coils cleaned in accordance with accepted industry practice.

ACCEPTED
with COMMENTS
EPA Letter Dated:

4. APPARATUS

Spray gun with fine mist

APR 15 2009

5. DIRECTIONS FOR USE

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

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

82523-1

Read the entire Standard Operating Procedure before commencing [beginning] application.

5.1. AerisGuard™ BACT

Clean coils using Advanced Coil Cleaner *{other product names may be used in addition to or in place of this product}*.

Once the coils have been allowed to dry for at least 20 minutes application of AerisGuard BACT can begin. Some dampness of the coil is acceptable however the surface must not be visibly wet. To assist in coil drying, run the fan only, excluding the refrigeration cycle. In chilled water systems close the chilled water supply valve. In DX systems shut down compressor(s).

This treatment is best applied using the electric type airless spray gun suitable for inflammable coatings. Adjust spray mist to the finest particle size possible. The application rate should be at least 0.85 US pints / 10 sq. ft (400 ml/ M²) based on a 4" (100mm) deep coil at 12 FPI. Apply evenly to the coil ensuring the solution covers all fins and tubes and penetrates as deeply as possible into the coils. For best results apply from both sides of the coil. Also apply to drain pans and any other surface that is wet during normal operation.

A thin coating is all that is required on all coil surfaces to ensure an efficacious result. **For best results both sides of each coil need to be treated applying 2 light coats at 10 minute intervals.**

Note: Bracketed [] information is optional text. Text separated by a comma (,) denotes--and/or-options. {Bracketed Text} is for administrative purposes only and will not appear on the printed label.

AERIS ENVIRONMENTAL LTD			
BACT TREATMENT OF HEAT EXCHANGE COILS			SOP NO 002
PREPARED BY	CHECKED BY	SUPERCEDES <i>{version may change}</i>	ISSUE DATE
M Heng	S Kritzler	Version 3.7 USA	<i>{insert appropriate date}</i>
STANDARD OPERATING PROCEDURE			Page 3 of 3

2
7

5.2 CLEANING UP

Fill used spray unit with water and operate to ensure no traces of solution remain within the unit. Follow manufacturer's other maintenance procedures for the spray equipment.

Ensure no trace of work or cleaning related debris remains on completion of this process. The use of door mats and/or cardboard boxes at entry and exit points helps to keep this cleaning to a minimum.

5.3 PRODUCT CONTAINER AND PRODUCT DISPOSAL

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Completely empty package. Triple rinse with water. Offer for recycling or reconditioning if available. Dispose of package in a sanitary landfill or incinerate if allowed by State and local authorities. If burned stay out of smoke. Do not reuse or refill empty container.

ACCEPTED
with COMMENTS
EPA Letter Dated:

APR 15 2009

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended for the pesticide,
registered under EPA Reg. No. 82523-1

This process document, the concepts, principles and methods contained therein are copyrighted © 2008 to Aeris Environmental Limited and can not be used without the written permission of Aeris Environmental Limited.