

AERISGUARD™



STATE OF HAWAII  
Department of Agriculture  
**ACCEPTED**  
LICENSE NO.  
**8505.2**

# BIOACTIVE COIL TREATMENT

FOR TREATMENT OF AIR CONDITIONING HEAT EXCHANGE COILS

**Prevents, inhibits and effectively controls the growth of odor causing fungi, mold and mildew and odor causing bacteria on HVAC coils.**

Normally, infrequent application (every 6 to 12 months) will provide effective residual control. This product is a fungistat, mildewstat, bacteriostat and a deodorizer and is non-corrosive. Prevents, inhibits and effectively controls the growth of odor causing fungi, mold and mildew and odor causing bacteria on HVAC coils. For commercial, industrial and residential application by a service contractor. Reduces energy consumption, improves HVAC efficiency and contains a color additive for visual identification.

**Active Ingredient:**

5-chloro-2-(2,4 dichlorophenoxy) phenol .....0.69%

**Other Ingredients:** .....99.31%

**Total:** .....100.00%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See back panel for first aid and additional  
precautionary statements



UN 1170

**Net Content:  
5 Litres / 1.32 US Gallons**

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. 083545-AUS-001

Re-Order Code:  
01-02-00003

## 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.

AERISGUARD™ COMMERCIAL PRODUCTS ARE FOR USE BY AERIS ACCREDITED APPLICATORS ONLY.

### 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, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**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 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.

#### 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 eye.
- Call a poison control center or doctor for 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.

##### 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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on this product, call the National Pesticides Information Centre 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.

**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.

Expiry:

Batch No:



V008

AERIS ENVIRONMENTAL LTD			
<b>BACT TREATMENT OF HEAT EXCHANGE COILS</b>			SOP NO 002
PREPARED BY M Heng	CHECKED BY S Kritzler	LATEST VERSION 3.10 USA	ISSUE DATE <i>Jan 28th, 2015</i>
<b>STANDARD OPERATING PROCEDURE</b>			Page 1 of 3

<sup>TM</sup>  
**AerisGuard Bioactive Coil Treatment (BACT)**  
**EPA Reg. No. 82523-1**

## 1. SCOPE AND PURPOSE

To outline the direction for use of Aeris-Guard<sup>TM</sup> Bioactive Coil Treatment (BACT) on air conditioning heat exchange coils.

## 2. USUAL SAFETY PRECAUTIONS

**Read the precautionary statements on the product label.**

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.

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 Aeris-Guard BACT to all surfaces of a heat exchange coil following cleaning with an appropriate non-corrosive coil cleaner. We recommend Aeris-Guard<sup>TM</sup> Advanced Coil Cleaner. The Aeris-Guard 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, Up to 12 months) will provide effective control. The treatment is classed as a bacteriostat, fungistat and mildewstat.

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

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and corrected and then the coils cleaned in accordance with accepted industry practice.

#### 4. APPARATUS

Spray gun with fine mist

#### 5. DIRECTIONS FOR USE

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

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

##### 5.1. AerisGuard™ BACT

Clean coils using Advanced Coil Cleaner.

Once the coils have been allowed to dry for at least 20 minutes application of Aeris-Guard 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 must be at least 0.85 US pints / 10 sq. ft (400 ml/ M<sup>2</sup>) 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.**

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## 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

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