Use this product for fogging your Ducts!

# BIOACTIVE FILTER TREATMENT

**PATENTED TECHNOLOGY FOR USE ON HVAC FILTERS**

## CLEANER FILTERS IMPROVE INDOOR AIR QUALITY AND PERFORMANCE OF HVAC SYSTEMS

Over time the filters of HVAC systems can become dirty as the air moving over the surface contain dirt, dust, pollen, moisture mould and odour causing bacteria. A build-up of mould and odour causing bacteria decreases the airflow across the filter, increasing the pressure drop and leading to excess energy consumption reducing the efficiency of the heat transfer process, leading to excess energy consumption.

## PRODUCT OVERVIEW

The **AerisGuard™ Bioactive Filter Treatment** is applied to air filters at the time of installation or to existing filters. The filter treatment is based on patented technology that ensures slow migration of active compound into dust particles trapped within the filter. Dust particles provides a source of nutrients for odour-causing bacteria and mould, which rapidly grow colonies in untreated air filters. Towards the end of its working life, a typical filter is highly contaminated. Aside from the potential human health consequences, the profileration of the mould and odour causing bacteria ultimately leads to the filter becoming blocked.

Application of the **AerisGuard™ Bioactive Filter Treatment** dramatically reduces mould and odour-causing bacteria growth. Thereby extending the filter life, improving dust retention, reducing energy consumption and improving indoor air quality.

- ✓ **Improves airflow up to 300%**
- ✓ **Passes ASTM E1053**
- ✓ **DA19 compliance for maintenance**
- ✓ **Prolong asset & equipment life**
- ✓ **Reduce energy consumption through correct airflow**
- ✓ **USEPA Registered**

## Get the Aeris Advantage!

- **READILY BIODEGRADABLE ▶**
- **UP TO 12 MONTHS PROTECTION ▶**
- **HIGHLY EFFECTIVE ▶**


**PRODUCT NOTES**

i. Refer to SDS-005-US AerisGUARD™ Bioactive Filter Treatment

MKT-057-02

# BIOACTIVE FILTER TREATMENT

**PATENTED TECHNOLOGY FOR USE ON HVAC&R FILTERS**

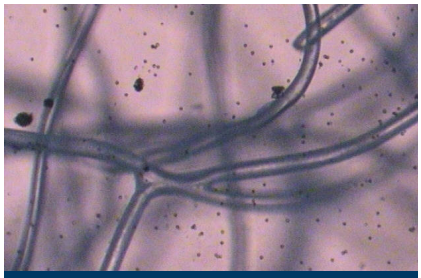
## FEATURES

- Residual biocide coated onto filter fibers, controls & prevents mould and odour-causing bacteria from colonising
- Treatment migrates to dust particles making it toxic as a food source for micro-organisms
- Treatment is designed to stay on filter fibers even under extreme air flows
- By controlling odour-causing bacteria and mould colonization the filter airflow is maintained
- The treatment assists in the capture of finer particles reducing their harmful effect on indoor air quality

## BENEFITS

- Indoor air quality compliant
- Improves airflow by maintaining uniform pressure drop across the filter
- Increases filter efficiency
- Extends filter life
- Reduces the number of filter exchanges

**Untreated** ***(Filter Fibres)***



**Treated** ***(Filter Fibres)***

## PREPARATION

| Product Code | Description | Dilution Rate |
|---|---|---|
| AGUS-FT-1G | Bioactive Filter Treatment 1 Gallon | Ready to Use |

| Product Code | Application Rate |
|---|---|
| AGUS-FT-1G | As per IFU[i] |

## CLEANS
## PROTECTS
## OPTIMIZES

AUSTRALIAN MADE AND OWNED

AIRAH

**AERIS ENVIRONMENTAL LTD.**
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MKT-057-02

**SAFETY DATA SHEET**
AerisGuard Bioactive Duct Coating & Sealant Viscosity Enhancement Additive (PF-159)

## SECTION 1: Identification

**1.1. Product Identifier**

| | | |
|---|---|---|
| Product form | : | Liquid Mixture |
| Trade name | : | AerisGuard Bioactive Duct Coating & Sealant Viscosity Enhancement Additive |

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

1.2.1 Relevant identified uses
Viscosity modifier for AC Duct coating and sealant.

1.2.2 Uses advised against
Not available

**1.3 Details of the supplier of the Safety Data Sheet**

Supplier:
Aeris Environmental Ltd, Level 1, Unit 5 / 26-34 Dunning Ave, Rosebery, NSW 2018 AUSTRALIA
Phone: +61 2 8344 1315 Fax: +61 2 96970944

**1.4 Emergency telephone number**

In Australia 02 83441315, from outside Australia +612 83441315

## SECTION 2: Hazard identification

**2.1 Classification of the substance or mixture**

Classification according to GHS
Not Classifed

**2.2 Label elements**

Hazard pictograms:
NONE

Signal word:
NONE

Hazard statement:
Not classified as hazardous

Precautionary statements:

| | |
|---|---|
| Prevention | Observe good industrial hygiene practices. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling, Do not eat, drink or smoke when using this product, Use in a well-ventilated area |
| Response | Wash hands after handling. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of waste and residues in accordance with local authority requirements. |

**2.3 Other hazards**

None known

## SECTION 3: Composition/information on ingredients

**3.1 Substance:**

Not applicable

**3.2. Mixture**

| NAME | CAS no. | % | Classification according GHS/CLP |
|---|---|---|---|
| Non-hazardous ingredients (GHS) | Proprietary | To 100% | Not Classified |

## SECTION 4: First aid

**4.1 Description of first aid measures**

First - aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a physician if symptoms develop or persist.

First-aid measures after skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical attention if irritation develops and persists.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms/injuries: None known

Symptoms/injuries after inhalation: None known

Symptoms/injuries after skin contact: None known

Symptoms/injuries after eye contact: None known

Symptoms/injuries after ingestion: None known

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media: Powder, foam, carbon dioxide ($CO_2$), water mist or water spray

Unsuitable extinguishing media: None

**5.2. Special hazards arising from the substance or mixture**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide. Combustible liquid. This product will readily burn under fire conditions.

**5.3. Advice for firefighters:**

Exercise caution when fighting any chemical fire.

Protective equipment for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions:

Move containers from fire area if you can do so without risk.

Hazchem Code:

Not available

General fire hazards:

No unusual fire or explosion hazards noted.

Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**6.1.1. For non-emergency personnel**

Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment:

Wear protective gloves, and eye protection as in section 8

**6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**6.4. Reference to other sections**

Section 8. Exposure controls and personal protection

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Precautions for safe handling: Observe good industrial hygiene practices. Use in a well ventilated area.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original tightly closed container in a cool dry well ventilated area, away from naked flames, sparks and other sources of ignition, strong oxidising agents.

## SECTION 8: Exposure control and personal protection

**8.1 Control parameters**

None set.

Individual protection measures, for example personal protective equipment (PPE)

| | |
|---|---|
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin protection | |
| Hand protection | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. |
| Other | Wear suitable protective clothing. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| Hygiene measures | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and not smoking while handling chemicals. Routinely wash work clothing and protective equipment to remove contaminants. |

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance: | White liquid |
| pH as supplied (typical): | Not available |
| Melting point/freezing point | Not available |
| Initial boiling point and boiling range: | 256°C (493°F) estimated |
| Flash point: | 123°C (253°F) estimated |
| Evaporation rate: | Not available |
| Flammability (solid, gas): | Not applicable |
| Upper/lower flammability or explosive limits: | Not available |
| Decomposition temperature | Not available |
| Vapour pressure: | 1 mmHg at 21°C |
| Vapour density: | Not available |
| Specific gravity: | 0.94 estimated |
| Solubility: | Not available |
| Partition coefficient n-octanol/water: | Not available |
| Viscosity: | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2 Chemical stability**
Material is stable under normal conditions

**10.3 Possibility of hazardous reactions**
No dangerous reaction known under normal conditions of use.

**10.4 Conditions to avoid**
Heat, flames and other sources of ignition.

**10.5 Incompatible materials**
Strong oxidising agents.

**10.6 Hazardous decomposition products**
Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbondioxide.

## SECTION 11: Toxicological information

Toxicology testing on animals are not done on this product. The following is the classification according to GHS based on the ingredients:

**11.1 Eye contact:**
Not classified as hazardous.

Based on available data, the classification criteria are not met. No known significant effects or critical hazards.

**11.2 Skin contact:**
Not classified as hazardous.

Based on available data, the classification criteria are not met. No known significant effects or critical hazards.

**11.3 Inhalation:**
Not classified as hazardous.

Based on available data, the classification criteria are not met. No known significant effects or critical hazards.

**11.4 Ingestion:**
Not classified as hazardous.

Based on available data, the classification criteria are not met. No known significant effects or critical hazards.

**11.5 Chronic**
None of the ingredients are in the list of IARC as carcinogens.

## SECTION 12: Ecological information

**12.1 Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.2 Persistence and degradability**
This product is readily biodegradable. Not classified as PBT or vPvB

**12.3 Bioaccumulative potential**
This product is not bioaccumulative.

**12.5 Other adverse effects:**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

## SECTION 13: Disposal consideration

**13.1 Disposal methods**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**13.2 Residual Waste**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see disposal instructions).

**13.3 Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for disposal.

## SECTION 14: Transport information

**14.1 Transport Classification**:

Not classified as Dangerous goods by ADG, IATA, or IMDG regulations.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

All ingredients in this preparation are listed in AICS, IECSC, ENCS, ECL, NZ inventory, PICCS and TSCA

## SECTION 16: Other information

Date of SDS revision: 30 Oct 2017

"The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Aeris Environmental Ltd, on +61 2 83441315.

END of SDS

Revision history [To be deleted before converting to pdf]

| Version | Revised Date | Changes |
|---|---|---|
| 1 | 30/10/17 | New |