

SAFETY DATA SHEET

AerisGuard Bioactive Surface Treatment

SECTION 1: IDENTIFICATION

PRODUCT NAME(S):	Aeris Guard Bioactive Surface Treatment
Product code	AG-ST-5 AG-ST-20
Uses:	For application on HVAC surfaces
Product Form:	Liquid Mixture
Company Name:	Aeris Environmental Ltd, 5/26-34 Dunning Ave, Rosebery, NSW 2018, Australia
Emergency Contact number:	In Australia: 02 83441315 EU: +356 9940 3485 USA: +1-908 878 7985

Relevant identified uses of the substance or mixture and uses advised against:

Provides protection against the colonisation of odour-causing bacteria, fungi and other odour-causing organisms on HVAC surfaces.

Uses advised against:

Not to be used by untrained personnel

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

Aeris Cleantech Europe Ltd
11, St. Francis, Triq Ta'Gawdieri, San Gwann, SGN1740 Malta

Aeris Environmental, LLC
70 FoxFarm Road Phillipsburg, New Jersey 08865 USA

SECTION 2: HAZARDS IDENTIFICATION

GHS classification and labelling of chemicals:

Eye irritation 2
Skin irritation 2
Aquatic acute 3

Classification according to DSD-DPD:Not classified:

Not classified.

Additional information:

For full text of R, P, S -phrases and Hazard-statements: see SECTION 16

Label elements:

This product is registered in the US with the USEPA. The labelling is in accordance with FIFRA labelling requirements.

For other territories:

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram:



Signal word:

WARNING

Hazard statement:

H319: Causes Serious eye irritation

H315: Causes Skin irritation

Precautionary statements:

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P284: In case of inadequate ventilation wear an approved organic vapour respiratory protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

Other hazards:

H402: Harmful to aquatic life

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance:

Not applicable

Mixture:

CHEMICAL NAME	CAS NO	PROPORTION % w/w	Classification according GHS/CLP	Classification according DSD/DPD
Alkyl (C12-16) dimethylbenzyl ammonium chloride	[68424-85-1]	<5%	Acute tox. 4 H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400	Xn; R22 Harmful if swallowed, C; R34 Causes burns, N; R50 Dangerous for the environment; Verytoxic to aquatic organisms.
Alkyl-Ethoxylated (Surfactant)	[68439-50-9]	0.1-5%	Aquatic Acute 1 H400: Very toxic to aquatic life. M=1. Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.	N; R50 Dangerous for the environment; Verytoxic to aquatic organisms.
Ingredients determined not to be hazardous including water	[NA]	To 100%	-	-

SECTION 4: FIRST AID

Description of first aid measures

- First - aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First - aid measures after inhalation: Remove patient to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Get medical attention.
- First-aid measures after skin contact: Remove contaminated clothing, wash skin with water and seek medical attention if symptoms persist.
- First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- First-aid measures after ingestion: Do not induce vomiting. If conscious, give water to rinse mouth and one or two glasses of water to drink. Contact a doctor or a Poisons Information Centre.

Most important symptoms and effects, both acute and delayed

- Symptoms/injuries: Causes serious eye irritation.
- Symptoms/injuries after inhalation: Not applicable
- Symptoms/injuries after skin contact: Causes skin irritation.
- Symptoms/injuries after eye contact: Causes eye irritation.
- Symptoms/injuries after ingestion: May cause abdominal discomfort

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special hazards arising from the substance or mixture:

Hazardous decomposition products may be released during prolonged heating: smoke, carbon monoxide and carbon dioxide.

Advice for firefighters:

Exercise caution when fighting any chemical fire. Protective equipment for firefighters: Use self- contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self-contained breathing apparatus.

Other information:

Hazardous decomposition products may be released during prolonged heating at temperatures exceeding 100°C - smokes, carbon monoxide and dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures:

- Wear protective gloves/protective clothing/eye protection/face protection.
- Collect spillage.
- Avoid release to the environment.

For non-emergency personnel:

- Evacuate unnecessary personnel.

For emergency responders:

Protective equipment:

- Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Stop leak

Environmental precautions:

Avoid release to the environment. Collect major spillage. Wash off minor spill with copious amounts of water.

Methods and material for containment and cleaning up:

Methods for cleaning up:

If possible, contain major spill. Soak up major spills with inert solids, such as vermiculites, clay or diatomaceous earth. Avoid high pressure rinsing. Comply with applicable local, national and international regulation. Collect spillage.

Residue and minor spill may be washed down with water to a sanitary sewer with copious amounts of water.

Reference to other sections:

SECTION 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- | | |
|-------|--|
| P261: | Avoid breathing vapours/spray |
| P264: | Wash hands thoroughly after handling. |
| P280: | Wear protective gloves/protective clothing/eye protection/face protection. |

Conditions for safe storage, including any incompatibilities:

Store below 30°C. Store upright in original containers. Keep containers closed when not in use.

Specific end use(s):

Read the Standard Operating Procedure and this SDS before using the product.

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters:

No exposure limit is set for any of the ingredients.

Exposure controls:

These measures are recommended on the basis of common application methods and may not be appropriate to all potential applications of the product. The user is responsible for carrying out a full risk assessment for their specific processes and systems of work.

- | | |
|-------------------------|--|
| Eye protection: | Wear eye protection to EN 166. |
| Body protection: | Wear protective clothing to prevent contact. |
| Respiratory protection: | Avoid breathing spray. |
| Other protection: | Wear PVC or Neoprene gloves. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	A clear colourless liquid
pH as supplied (typical):	4.0 – 8.0
Boiling point:	>100°C
Melting point:	Not applicable
Flash point:	>93°C (Pensky-Martens closed cup)
Evaporation rate:	No data
Flammability:	Non-flammable
Upper/lower flammability or explosive limits:	No data Auto-ignition temperature: No data
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising
Decomposition temperature	No data
Vapour pressure:	No data
Vapour density:	No data
Specific gravity at 20°C:	0.94 – 1.04 (Water 1)
Solubility:	Readily Soluble
Partition coefficient n-octanol/water:	Not applicable
Viscosity:	No data

Other information:

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Stable under normal working/storage conditions.

Chemical stability:

Stable under normal working/storage conditions.

Possibility of hazardous reactions:

Stable under normal working/storage conditions.

Conditions to avoid:

Storing at temp above 30°C, or under the sun.

Incompatible materials:

None known

Hazardous decomposition products

Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye contact:

Causes serious eye irritation.

Skin contact:

Causes skin irritation.

Inhalation:

Not classified.

Based on available data, the classification criteria are not met.

Ingestion:

Not classified.

Based on available data, the classification criteria are not met.

Respiratory/skin sensitisation:

Not classified.

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Not classified.

Based on available data, the classification criteria are not met.

Carcinogenicity:

Not classified.

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Not classified.

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure):

Not classified.

Based on available data, the classification criteria are not met.

Aspiration hazard:

Not classified.

Based on available data, the classification criteria are not met.

Potential Adverse human health effects and symptoms:

Causes skin and eye irritation, might cause rash on skin and red eye.

SECTION 12: ECOLOGICAL INFORMATIONToxicity:

The acute toxicity of this preparation has been assessed to be harmful to aquatic life.

Persistence and degradability:

Ingredients contained in this preparation are readily biodegradable.

Bioaccumulative potential:

Not classified as bioaccumulative.

Mobility in soil

Unknown.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed as PBT (Persistent Bioaccumulative and Toxic) or vPvB (very Persistent very Bioaccumulative).

Other adverse effects:

No other adverse effects are anticipated.

SECTION 13: DISPOSAL CONSIDERATIONS

Avoid release to the environment. Do not contaminate water, food or feed. Completely empty the package. Triple rinse with water. Dispose of package in a sanitary landfill, or by incineration, if allowed by State and local authorities. If burned, stay out of smoke.

SECTION 14: TRANSPORT INFORMATION

Transport Classification:	Not classified as Dangerous goods
UN Number and shipping name:	Not classified
Transport Class:	Not classified
Packing Group:	Not classified
Environmental hazards:	Not classified
Special precautions for user	
Overland Transport category (ADR):	Not classified
Air transport IATA Class:	Not classified

SECTION 15: REGULATORY INFORMATION

This product is registered with the US EPA with registration number: 82523-3

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

This mixture is regulated by Biocidal Product Regulation EU528/2012.

SECTION 16: OTHER INFORMATION

Abbreviations:

HVAC	Heating Ventilation and Air Conditioning
GHS	Global Harmonized System
DSD/DPD	Dangerous Substance Directive/Dangerous Product Directive
CLP	Classification Labelling and Packaging
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA	International Air Transport Association

References: ECHA information on chemicals

The opinions expressed herein are those of qualified experts. We believe that the information contained herein is current as of the date of this SDS. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Novapharm Research P/L it is the users' obligation to assure safe use of the product.

Date SDS revision: 25/07/22

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