

AERIS TECHNOLOGIES

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PRODUCT NAME: AERIS-GUARD ENZYMATIC COIL CEANER

UN No.	-	CAS No.	mixture
HazChem	-	Sub Risk	-
Pack Group	-	SUSDP	-
D.G. Class	-	Poison Schedule	-

USE: Aqueous enzymatic concentrate for the cleaning and *digestion of biological debris and common soil present on air-conditioning coils*

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Clear to slightly hazy <i>amber</i> liquid
Solubility in water:	Readily soluble
pH Level:	7.0-8.5
Odour:	Slight fermentation odour

SECTION 2 - INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

Chemical Name:	CAS NO:	PROPORTION, wt%:
Enzyme Protein Protease Subtilisin	9014-01-1	<10%
Enzyme Protein Metalloprotease	9001-92-7	<10%
Enzyme Protein Lipase Triacylglycerol	9001-62-1	<3%
Enzyme protein Cellulase	9012-54-8	<3%
Enzyme Protein Amylase	9000-92-4	<10%
Enzyme Protein Alpha-Amylase	9000-90-2	<1%
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	<0.005%
2-methyl-4-isothiazolin-3-one	2682-20-4	<0.005%

OTHER INGREDIENTS DETERMINED NOT TO BE HAZARDOUS

Linear alkyl pyrrolidone	123-75-1	< 5%
Dodecyl Benzenesulfonic Acid	27176-87-0	<10%
Water	7732-18-5	<40%
Polyethylene oxide derivative of synthetic alcohols	9003-11-6	<20%
Dipropylene Glycol Methyl Ether	34590-94-8	<20%
Alkyl Polyglucoside	N/A	<1%
Glycerin	56-81-5	<5%
Sodium Tetraborate	1330-96-4	<5%

SECTION 3 - HEALTH HAZARD INFORMATION

Health effects

No adverse health effects expected if the product is handled in accordance with above advice. Symptoms that may arise if the **undiluted** material is mishandled are:

Ingestion:	Ingestion may result in abdominal irritation, pain and discomfort
Eye:	Contact with eyes will cause irritation
Skin:	Repeated and prolonged contact with unprotected skin may cause irritation and skin sensitisation
Inhalation:	The aerosol is discomforting to the upper respiratory tract, no adverse reaction expected

SECTION 4 – FIRST AID MEASURES

Skin contact:	Rinse off with copious water.
Eye contact:	Rinse thoroughly with copious water, continue washing for at least 15 minutes. Seek medical attention if symptoms persist.
Ingestion:	Rinse mouth and throat thoroughly with water. Drink water. Seek medical attention if symptoms persist.
Inhalation:	Remove from exposure. In case of irritation or prolonged allergic symptoms, seek medical attention.

SECTION 5 – FIRE-FIGHTING MEASURES

Inflammability:	Non-inflammable. Will not support combustion.
Protection against fire and Explosions:	No requirements
Suitable Fire Extinguishing Media	As for surrounding fire
Special Exposure Hazard	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material. Spill area should be flushed with water to sewer (avoid high pressure rinsing).
Do not use cleaning methods that generate aerosol
Spilled concentrate should be removed as soon as possible to avoid drying and formation of dust. Rinse off with excess water.

SECTION 7 – HANDLING AND STORAGE

Precautions to be taken in Handling and Storage:	Store at controlled room temperature (5-30°C). Keep away from direct heat. Keep containers closed at all times.
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SECTION 8 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear to hazy yellow-green liquid
Boiling Point:	106°C (more than 100C)
Vapour Pressure:	N/A
Specific gravity:	1.02 - 1.10 @ 20°C
Solubility in water:	Readily soluble
Reactivity in water/air:	Not reactive
Incompatibility (materials to avoid)	Strong oxidisers
pH Level:	7.2-8.5
Flash point:	N/A

pH, boiling point, flash point, ignition temperature, vapour pressure, density and solubility are not relevant to safety

SECTION 9 – STABILITY AND REACTIVITY

This material is stable under normal conditions of use	
Conditions to avoid:	None
Materials to avoid:	Strong oxidisers
Hazardous Decomposition Products:	None

SECTION 10 - ECOLOGICAL INFORMATION

LC-50 (fish, algae, dafnia) >100 mg/L for all ingredients. When diluted with water the material is fully biodegradable. The product actually PROMOTES biodegrading in sewerage sludges. This classifies the material as non-dangerous to environment

SECTION 11 – DISPOSAL CONSIDERATIONS

No special disposal method required. The material is fully biodegradable

SECTION 12 – REGULATORY INFORMATION

The material is a non-hazardous preparation.

Labelling:

**NOT TO BE TAKEN
KEEP OUT OF REACH OF CHILDREN**

**Person responsible for
Preparation:**

Dr Alex Sava, Novapharm Research Pty Ltd

Date prepared:

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The opinions expressed herein are those of qualified experts. We believe that the information contained herein is current as of the date of this MSDS. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Aeris Technologies Ltd it is the users obligation to assure safe use of the product.