

PestaCure

Introduction FARMCELL
for

Rubber Pestalotiopsis Disease



New disease poses threat to Rubber Industry



Pestalotiopsis leaf fall disease

The first report occurred in Malaysia in 1975 in a nursery and attacked again in 2017

Pestalotiopsis leaf fall disease caused by the fungus *Pestalotiopsis Microspora* is commonly found in Indonesian rubber plantations.

The rubber defoliation period usually occurs for 1 month as a response to drought during the dry season. However, due to this disease, the rubber defoliation period occurs gradually with an earlier fall. Leaf fall can cause a decrease in the number of plant canopy which affects the leaf area index and latex production. The disease appears during heavy rain. When infected, rubber trees lose a lot of leaves, thus lowering latex yields by up to 20 per cent.



What is PestaCure

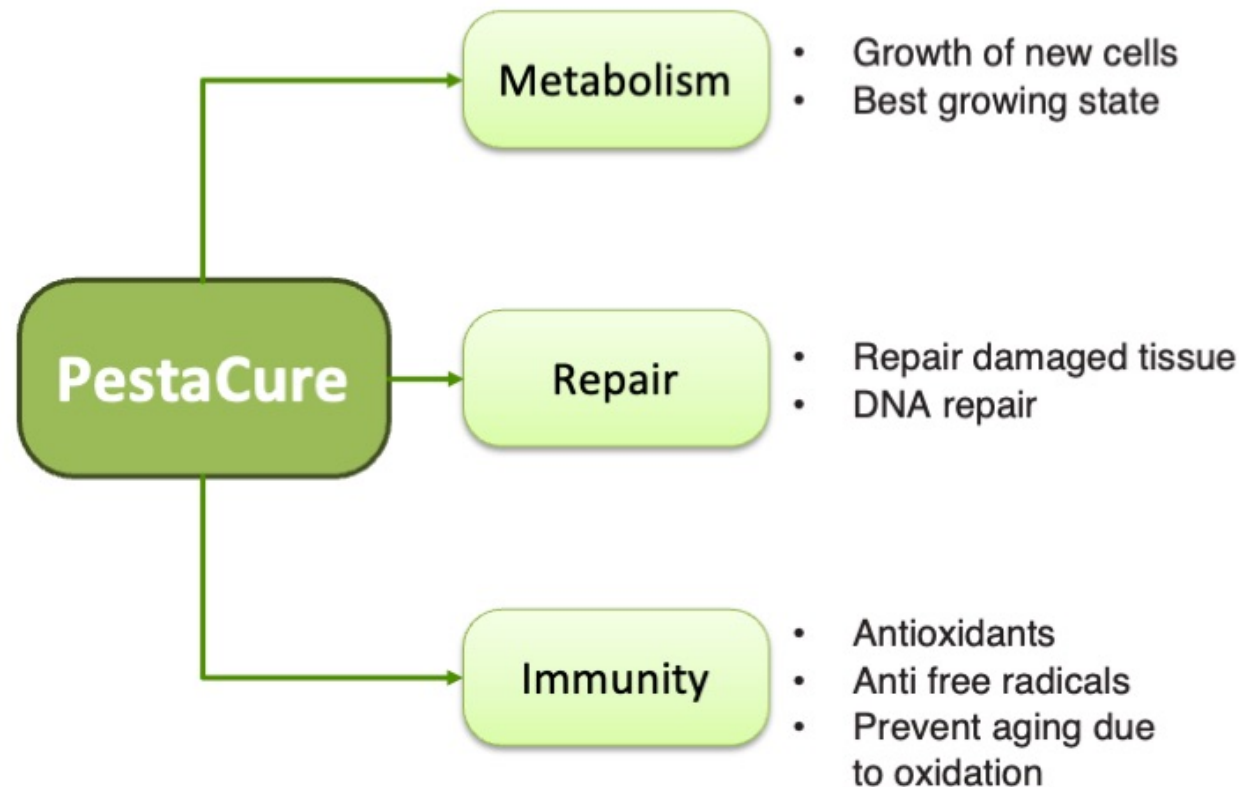


- ❖ Ground breaking Plant Stem Cell Technology & live microbes 100% organic and environmentally friendly.
- ❖ Sustainably and responsibly sourced and manufactured.
- ❖ Healthy soils are foundation of the food system.
- ❖ Soil quality is directly linked to food quality and quantity.
- ❖ Soils supply the essential nutrients, water, oxygen and root support that our food-producing plants need to grow and flourish.
- ❖ Patented under MyIPO



Functions

- Farmcell control the growth and repairing functions.
- Their number is relatively rare, yet they are important elements for cell metabolism and the continuous growth of branches and roots.
- Therefore the primary location of plant stem cell is in the buds and roots.



❖ Natural Enzymes	<ul style="list-style-type: none">▪ Catalyses the metabolic reactions▪ Increased leaf absorption.▪ Increase in the microbiological microfauna)▪ Conversion and mineralization of nutrients for better assimilation.
❖ Microorganisms ❖ Bacilli	<ul style="list-style-type: none">▪ Fixing nitrogen and dissolving phosphorus.▪ Production of plant growth regulators (auxin, cytokinin's, gibberellins).▪ Inhibition of ethylene synthesis.▪ Oxidation of sulfur.▪ Increased root permeability.▪ Improvement of nitrate reductase and its assimilation.
❖ Amino Acids	<ul style="list-style-type: none">▪ Promotes the complete and qualitative growth of plants and fruits in their texture and size.
❖ Humid Acid	<ul style="list-style-type: none">▪ Stimulation of the assimilation of Micronutrients provided by BIOBOON and / or contained in the soil.
❖ Elicitors	<ul style="list-style-type: none">▪ Induction of repeated natural vaccine stress with stimulation of antibiotic functions.▪ Induction of systemic resistance of the plant to many pathogens.
❖ Mycorrhizae	<ul style="list-style-type: none">▪ Increased presence of endo / ecto symbiotic mycorrhizae.▪ Extension of the root network for increased nutrient capture.

MATERIAL SAFETY DATA SHEET (MSDS)



Section I – Chemical Products and Company Identification

Product	PestaCure
Trade Name	Farmcell
Effective Date	1 st June 2024
Classification	Plant Nutrient
HS Code	3101.00.99.00
Manufacturer	AECO Manufacturing (M) Sdn. Bhd.

MATERIAL SAFETY DATA SHEET (MSDS)



Section II – Composition/Information on Ingredient

INGREDIENTS		
SOURCE		100% VEGETAL
TOTAL NATURAL NITROGEN (N)	Mg/L	5000-6000
TOTAL NATURAL PHOSPHORUS (P)	Mg/L	10-20
TOTAL NATURAL POTASSIUM (K)	Mg/L	1000-2000
pH		6.5 - 8.0
GMO		Free
DENSITY		±1.08
TOXICITY		NONE
HEAVY METALS		
Cd	ppm	ND
M	ppm	ND
Pb	ppm	ND
Cr	ppm	ND

MATERIAL SAFETY DATA SHEET (MSDS)



Section III – Hazardous Ingredients

None as defined under Canadian Hazardous Products Act S.C. 1987, C.30 (Part 1).

Section IV – Physical Data

Appearance	Liquid Brown
Density	±1.08 at 20°C
Solubility In Water	100%
Ph	Concentrated approximately 6.5-8.0
Flammability	None Flammable
Flash Point Open Cup	No Flash To Boil
Ecological Particulars	There are no environmental harmful effect know

MATERIAL SAFETY DATA SHEET (MSDS)



Section V – Health Hazard Data

Inhalation	No Hazard, Remove to fresh air if desired.
Eye Contact	If irritation occurs flush with plenty of water (20 minute).
Skin Contact	No Hazard, Rinse with water if desired.
Ingestion	Drink plenty of water, do not induce vomiting.

Section VI - Emergency First Aid Information

For Overexposure by Swallowing	If swallowed, do not induce vomiting. Wash affected area. Immediately flush eyes with plenty of cool water. Do not let victim rub eyes. Get medical attention immediately.
For Overexposure by Skin Contact	
For Overexposure by Eye Contact	
For Overexposure by Inhalation	

MATERIAL SAFETY DATA SHEET (MSDS)



Section VII – Fire Fighting Measures

Extinguishing Media
Fire Fighting Instruction

Dry chemical, carbon dioxide and foam.
Fire fighting personnel should wear proper protection equipment.

Section VIII – Storage and Handling

Handling
Storage

Keep product away from open flame.
Store in a cool area and keep container tightly sealed.

Section IX – Exposure Controls

Engineering Control

No special control required

MATERIAL SAFETY DATA SHEET (MSDS)



Section X – Personal Protection Information

Eye / Face Protection	Protective goggles, have suitable eyewash water available.
Skin Protection	Wear suitable protective clothing.
Respiratory Protection	Wear suitable protective mask

Section XI– Stability and Reactivity

Stability	Generally stable.
Hazardous Polymerization	None likely.
Materials to Avoid	Strong oxidizing agents / Strong acid and alkalis / Strong reducing agents / Strong mineral acid.

Section XII – Accidental Release Measure

Environmental Precaution	Avoid uncontrolled releases of this material, where spill area possible, a comprehensive plan should be implemented. Prevent run-off to sewers, streams or other bodied of water. If run off occurs, notify proper authorities as required.
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MATERIAL SAFETY DATA SHEET (MSDS)



Section XIII – Spill, Leak And Waste Disposal

Spill or Leak Precaution

Wear appropriate respiratory protection and protective clothing. Contain spilled material and transfer to secure containers.

Waste Disposal

All recovered material should be packed, labeled, transported and disposed in conformance with applicable law and regulation.

Section XIV – Ecological Information - This product is biodegradable.

Section XV – Transportation Information - Not a hazardous material according to IMDG,ADNR,ICAO-TI,RID/ADR,IATA-DGR,GGVS/GGV.

Section XVI – Other Information - The information contained herein as based on data considered accurate. However, no warranty is expressed of implied regarding the accuracy of these data or results to be obtained from the use thereof.

TESTIMONIAL



Attacked by Disease Peatalotiopsis

- No Latex,
- Production drop 50%



TESTIMONIAL



Attacked by Disease Peatalotipsis

After 3 months with
6 application of
PestaCure,
the latex back to normal





Thank you.

Kangen Biotech Manufacturing Sdn Bhd.

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