

DIEBACKCARE[™]
Microbial Consortia
BioFungicide

Introducing DIEBACKCARE[™]

DIEBACKCARE[™] is a biological fungicide that helps control Dieback disease in orchards. It is based on selected strains of naturally-occurring antagonistic microbes. DIEBACKCARE[™] contains spores, mycelia fragments and vegetative cells of the microbial consortia.

Dieback/ Wilt disease can be caused owing to a host of factors such as Phytopathogenic fungi / Phytopathogenic bacteria/ Phytopathogenic Virus / Phytopathogenic Nematodes , Root grubs , Micronutrient imbalance, Soil compactness , water logging , inadequate root respiration.

Mode of Action

Substrate Competition for space and Nutrients: DIEBACKCARE[™] colonizes maximum space of the root systems and absorbs maximum nutrients available at the target site and thereby controls the pathogens by starving them for food and competing for space

Mycoparasitism: DIEBACKCARE[™] is a biological fungicide that attacks disease-causing pathogens before they reach the root system. It derives nutrition from the target pathogen and DIEBACKCARE[™] microbes multiply inside it and eventually kill the pathogen.

Enzyme production: DIEBACKCARE[™] secretes certain antagonistic secondary metabolites which have an anti fungal effect that pathogenise and kill the disease causing organism.

Method of Application

Soil application: Mix 30 Kg of DIEBACKCARE[™] with 500 Kg of Vermicompost and apply at active root zone of tree @ 1kg /tree twice a year . It is important to apply this mixture in the active root zone by opening the soil and then closing it.

It is advisable to apply DIEBACKCARE[™] after the first tree with Dieback/wilt is seen and surrounding trees also have to be treated as a prophylactic measure

For best results mix 1 kg of Agri Life Oxyrich[™] with DIEBACKCARE[™] and Vermicompost mixture.

Note: Apply twice a year for best results

Target Diseases

DIEBACKCARE™ controls Dieback disease of orchards

Crops

DIEBACKCARE™ is suitable for application on Orchards

Compatibility

DIEBACKCARE™ is compatible with BioPesticides and not with Chemical Fungicides.

Shelf Life

DIEBACKCARE™ is stable for a period of 12 months from the date of manufacturing.

Mass Composition

| CONSTITUENT | W/W % | FUNCTION |
|---|-----------|----------|
| <i>Microbial consortia</i> (Spores, mycelia and vegetative cells) | 2.00% | Active |
| Moisture | 8.00% max | Inactive |
| Carrier Powder - Talc | 90.0% | Inactive |

Free from Salmonella, Shigella, E.Coli

Cautions for handling and use of product

1. Avoid inhalation and skin contact while mixing as there could be spillage / splashes of the product.
2. Mixing and spraying equipment is to be thoroughly rinsed with water and detergent before using the same equipment for other chemical agricultural inputs.
3. Surplus product may be added in crop lands but not to be disposed in stagnant water / flowing water where there is a possibility of causing pollution to natural resources
4. Do not eat / drink / smoke during application.
5. Direct incidence of DIEBACKCARE™ may cause irritation and therefore it is recommended that the operator should use protective gear viz gloves, apron, mask, eye gear and hood.

Symptoms and Antidotes

Symptoms: Occasional symptoms include head ache and nausea.

Antidote: In the case of ingestion: symptomatic treatment is advised. In the case of contact with Eyes: Flush with water liberally for 20 minutes. In case of Skin contact, wash the affected area with plenty of water and soap.

Citations

There are no public citations of DIEBACKCARE™ as it is a proprietary product

Commitment to Nature

- DIEBACKCARE™ is safe to natural parasites, pollinators and predators.
- DIEBACKCARE™ can be used as an effective component in IPM programmes, thereby leading to a reduction in use of chemical pesticides/fungicides and creating a safer environment.
- DIEBACKCARE™ does not lead to residue problems and doesn't cause resistance or resurgence problems.

Benefits from DIEBACKCARE™

- DIEBACKCARE™ effectively controls one of the most economically important diseases in orchards – Dieback of orchards
- Disease reduction leads to improved plant health and thereby increased crop productivity.
- DIEBACKCARE™ is pet friendly , eco friendly and infant friendly