

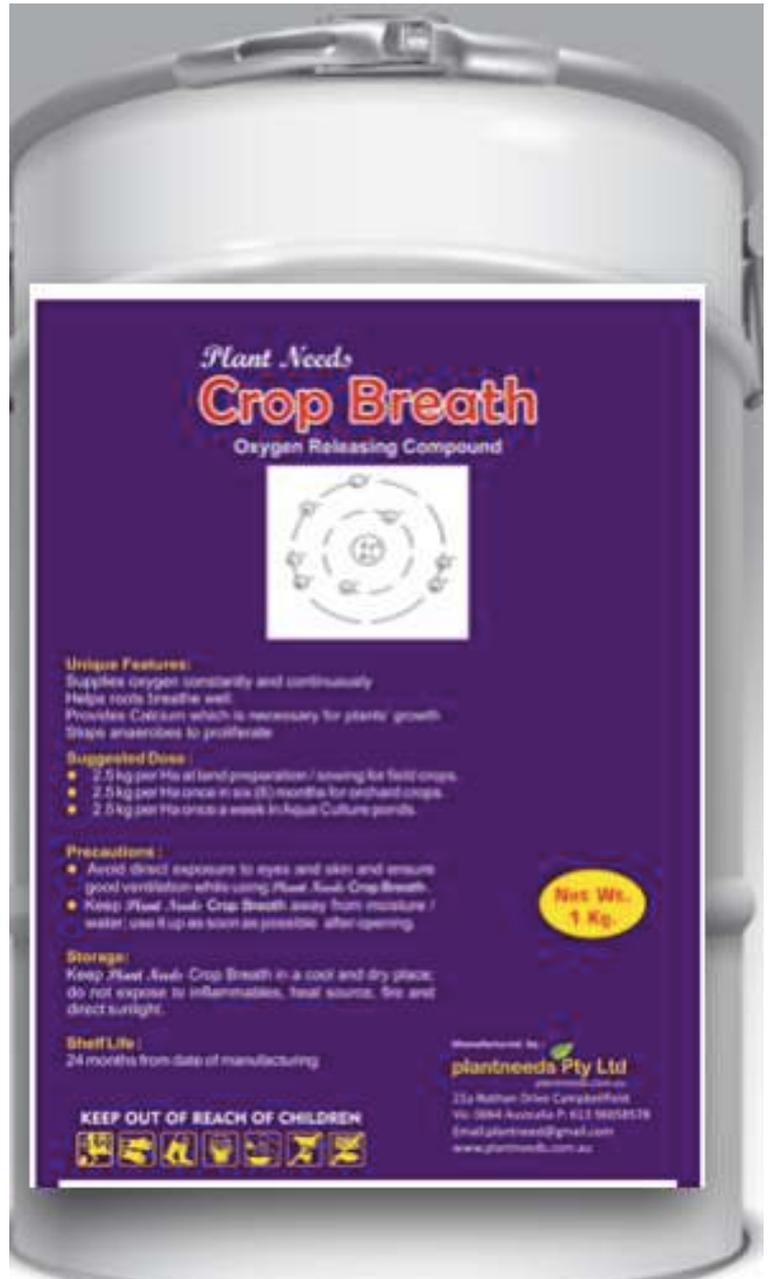
Crop Breath

Introduction:

Crop Breath is based on a Calcium peroxide complex with adjuvants and safeners that enables sustained release of Oxygen during the cropping cycle as well as a continuous supply of Calcium which is an integral element of plant cells.

Crop Breath aids in root respiration which is essential for water and nutrient absorption during photosynthesis. Sustained release of Oxygen also encourages the survival of plant friendly micro flora and micro fauna while preventing harmful anaerobic microbes to proliferate and harm the plant. Calcium is an important plant cell wall constituent which actively divides root and shoot cells aiding growth. Naturally supplementing this integral element is essential as it makes the plant sturdy and less susceptible to pest and disease attack. Similarly Oxygen plays a vital role in photosynthesis as it is essential for the roots to absorb water and nutrients in soil to convert it into 'plant food'. Inadequacy of Oxygen supply to roots causes an anaerobic environment formation leading to root diseases and nutrient deficiencies. Increased calcium levels in the soil also enhances the buffering capacity, thus reducing the effects of nutrient toxicity.

Crop Breath contains Calcium peroxide, which is composed of oxygen being held in a tight bond with calcium, both of which are indispensable when growing high-performance crops. The adjuvants and safeners help in a slow and consistent release



of Oxygen to the root zone. In the presence of sufficient oxygen (aerobic conditions), and other nutrient elements, microorganisms will ultimately convert many organic contaminants to carbon dioxide, water, and microbial cell mass.

Mode of Action:

Crop Breath when applied to soil and on coming in contact with water will immediately begin to decompose releasing oxygen. Calcium peroxide is composed of oxygen being held in a tight bond with calcium. The breakdown is as follows: $\text{CaO}_2 \rightarrow \text{Ca} + \text{O}_2$ while H_2O_2 decomposes into H_2O and O . (nascent oxygen) The oxygen released aids in root respiration and calcium ions help in strengthening the crop.

Method of Application :

Basal Dose / Top Dressing : Broadcast 1 Kg / Crop Breeath before planting.
Orchards : Apply Crop breath @ 500 g - 1 Kg / plant twice a year/crop

Crop Breath is suitable for application for on Cereals , Millets , Pulses, Oilseeds, Fibre Crops , Sugar Crops , Forage Crops , Plantation crops ,Vegetables, Fruits, Spices , Flowers , Medicinal crops , Aromatic Crops , Orchards and Ornamentals. Shelf Life Agri Life Oxyrich™ is stable for a period of 12 months from the date of manufacturing.

More details:

Crop Breath is Oxygen liberating compound

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Method of Application

Basal Dose / Top Dressing : Broadcast 1 Kg / Acre of Crop Breath before planting. Orchards: Apply Crop Breath @ 500 g – 1 Kg / plant twice a year.

Crops

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Compatibility

Crop Breath is compatible with Fertilizers, Pesticides and Fungicides.

Shelf Life:

Crop Breath is stable for a period of 12 months from the date of manufacturing.

Mass Composition

CONSTITUENT

Calcium peroxide Inert ingredients

Free from Salmonella, Shigella , E.Coli Cautions for handling and use of product

W/W %

60% q.s.

FUNCTION

Active Inactive

1. Avoid inhalation and skin contact during product application
2. Surplus of Crop Breath should not be disposed in crop lands / stagnant water / flowing water where there is a possibility of causing pollution to natural resources.
3. Do not eat / drink / smoke during application.
4. Direct incidence of Crop Breath may cause irritation and therefore it is mandatory that the operator should use protective gear viz gloves, apron, mask, eye gear and hood.
5. Keep Crop Breath away from moisture/water; use it up as soon as possible after opening.

6. Keep Crop Breath in a cool and dry place, do not expose to inflammables, heat source, fire and direct sunlight.

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

Commitment to Nature

- Crop Breath is safe to use along with bio fertilizer inoculums like Beneficial (Nitrogen Fixing bacteria) ; P Sol B(Phospho bacteria) ; K Sol B(Potash mobilizing bacteria); Zn Sol B (Zinc mobilizing bacteria) :S Sol B (Sulphur solubilizing bacteria) : Si Sol B (Silica solubilizing bacteria) : Fe Sol B(Iron / Ferrous solubilizing bacteria) : Mn Sol B (Manganese solubilizing microbe) and (Vesicular-arbuscular mycorrhiza)
- Crop Breath can be used as an effective component in INM programmes
- Crop Breath does not lead to residue problems and doesn't cause resistance or resurgence problems.

Benefits from Crop Breath

- Provides a long-term oxygen reservoir, releasing oxygen sustainably during the cropping cycle.
- Provides calcium which is necessary for plant growth
- Stops anaerobes to proliferate and cause diseases.
- Enhances microbial metabolism to remediate pollutants
- Aids in adjusting soil pH value and acts as a buffer.