

Agri Life
Oxyrich™
Oxygen liberating compound

Introducing Agri Life Oxyrich™

Agri Life Oxyrich™ 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.

Agri Life Oxyrich™ 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.

AgriLife Oxyrich™ 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

Agri Life Oxyrich™ 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: $\text{CaO}_2 \rightarrow \text{Ca} + 2\text{O}$ 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 / Acre of Agri Life Oxyrich[™] before planting.

Orchards: Apply Agri Life Oxyrich[™] @ 500 g – 1 Kg / plant twice a year

Crops

Agri Life Oxyrich[™] 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.

Compatibility

Agri Life Oxyrich[™] is compatible with Fertilizers, Pesticides and Fungicides.

Shelf Life

Agri Life Oxyrich[™] is stable for a period of 12 months from the date of manufacturing.

Mass Composition

CONSTITUENT	WW %	FUNCTION
Calcium peroxide	60%	Active
Inert ingredients	q.s.	Inactive

Free from Salmonella, Shigella , E.Coli

Cautions for handling and use of product

1. Avoid inhalation and skin contact during product application
2. Surplus of Agri Life Oxyrich[™] 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 Agri Life Oxyrich[™] 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 AgriLife Oxyrich[™] away from moisture/water; use it up as soon as possible after opening.

6. Keep AgriLife Oxyrich[™] 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

Citations

Agri Life Oxyrich[™] is a proprietary product of Agri Life and public citations of the same aren't available. However, there is plenty of literature available on the importance of calcium peroxide as an important constituent in agriculture.

Commitment to Nature

- Agri Life Oxyrich[™] is safe to use along with bio fertilizer inoculums like Agri Life Nitrofix[™] (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 Agri Life Agrivam[®] (Vesicular-arbuscular mycorrhiza)
- Agri Life Oxyrich[™] can be used as an effective component in INM programmes
- Agri Life Oxyrich[™] does not lead to residue problems and doesn't cause resistance or resurgence problems.

Benefits from Agri Life Oxyrich[™]

- 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.