

AMINOCID® - Sprayable Powder (SP) Protein hydrolysate of vegetative origin

Introducing AMINOCID®- SP

AMINOCID® -SP is a unique BioStimulant comprising of a mixture of amino acids based on bioactive substances derived from Protein hydrolysates of vegetative origin using enzyme hydrolysis method.

AMINOCID® -SP is not derived from animal origin. The application of Amino acids derived from animal origin sources to plants is against the principle of nature. It is derived from soy origin using an enzymatic process. Acid / Alkali hydrolysis is not used for AMINOCID®-SP extraction and therefore AMINOCID® -SP is natural and safe source of protein supplement to plants.

The amino acids are building blocks of protein which are abundantly required for crop growth. AMINOCID® - Sp provides protein to the plant through these essential amino acids that help in improving yield which can be seen as higher grain weight / higher grain production/ better yield of vegetables and fruits.

AMINOCID®- SP provides macro and micro nutrients required for crops. AMINOCID®-SP is extracted from vegetative sources by the enzyme hydrolysis method and as such Bioactive substances do not get denatured.

AMINOCID®-SP is used as an effective foliar spray. It is formulated as Soluble sprayable powder.

Mode of Action

Protein synthesis: The amino acids are the structural basis of proteins and are synthesized in the root and leaf system of the plant. The amino acids later travel to the synthesizing centers, which are new leaves & stems. The protein synthesis occurs in the tiny organs of the cell viz. Ribosome.

Leaves are able to take free amino acids very effectively. It provides ready-made blocks for protein synthesis, without going through the cycle of amino acids synthesis within the plant. AMINOCID® - SP provides these essential amino acids to the synthesizing centres through foliar nutrition that increase protein availability to the crop and thereby increases crop yield.

Method of Application

Foliar Application: Mix 1 g. AMINOCID®-SP in 1 L of water and spray.

Spray volume depends on the crop canopy.

Drip Irrigation: Mix 250 g. of AMINOCID[®]-SP in water needed for 1 acre in drip stream.

Seed Treatment : Mix 1 g. / Kg of AMINOCID[®]-SP as seed dressing

Root dip/ Nursery treatment: Mix 1 g. of AMINOCID[®]-SP per Litre of water and dip seedling in this solution / spray on nursery bed.

Crops

AMINOCID[®]-SP is suitable for application 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

AMINOCID[®]-SP is compatible with Pesticides and Fungicides. It is NOT compatible with Copper based products. It should also not be mixed with any chemicals where the reaction is alkaline in nature.

Shelf Life

AMINOCID[®]-SP is stable for a period of 36 months from the date of manufacturing.

Mass Composition

CONSTITUENT	WW %	FUNCTION
<i>Protein hydrolysate</i>	80.00%	Active
Carrier inert ingredients	q.s.	Inactive

Free from Salmonella, Shigella , E.Coli

Cautions for handling and use of product

1. Avoid inhalation and skin contact while diluting 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 spraying other pesticides.

3. Surplus spray solution if mixed with chemicals should not be disposed in crop lands / 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 AMINOCID®-SP 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

AMINOCID®-SP is a proprietary product and public citations of the same aren't available. However there is plenty of literature available in public domain on Protein hydrolysates of vegetative origin.

Commitment to Nature

- AMINOCID®-SP can be used as an effective component in INM programmes, thereby leading to a reduction in use of synthetic plant nutritional supplements and chemical fertilizers and creating a safer environment.
- AMINOCID®-SP does not lead to residue problems and doesn't cause resistance or resurgence problems.

Benefits from AMINOCID®-SP

- Increases grain / fruit yields because of better protein assimilation
- Promotes enzymatic activities as it contains natural stimulants
- Stimulates protein creation as it contains amino acids which act as building blocks