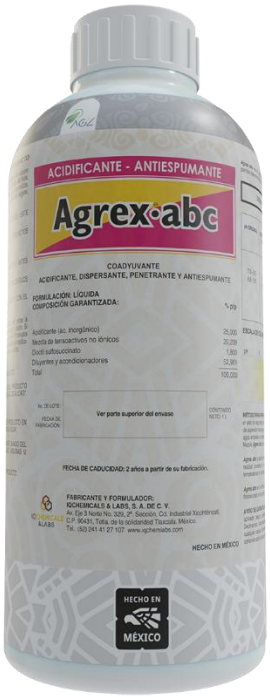
Technical Data Sheet

Agroenzymas



ACIDIFIER - ANTIFOAMING AGENT

Agrex®abc

GENERAL INFORMATION

Category	Acidifier, Penetrant, Dispersant, Humectant, and Antifoaming Agent
Guarantee of composition	Composition _____%w/w Acidifier (inorganic acid) _____25.00% Mixture of nonionic surfactants _____20.23% Dioctyl sulfosuccinate _____1.80% Diluents and Conditioners _____52,92% Total_____100%
Key feature	Agrex®abc is an adjuvant, acidifier, dispersant, penetrant, and antifoaming agent that allows the pH of water to be adjusted for greater efficiency and longer shelf life of agrochemicals.
Manufacturer/ Formulator/ Distributor	IQ Chemicals & Labs S.A. de C.V. IQ Chem & Labs S.A. de C.V. Agroenzymas México S.A. de C.V.
Registration	In accordance with the regulations of the law, as of March 28, 2005, co-adjuvants do not require registration with COFEPRIS.

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MODE OF ACTION AND EFFICACY:

Agrex®abc is a product with acidifying, wetting, dispersing, and penetrating properties. The product prepares spray water with an optimal pH for most agrochemicals, due to:

- Acidifying power. An application with an acidic pH prevents the active ingredients in agrochemicals from losing their potency. Agrex®abc is the top adjuvant on the market for reducing the alkalinity of soils and mixtures that require it. It contains non-oxidizing acidifying agents with high proton dissociation, which allows the pH to be lowered efficiently even in soils with high carbonate content. This is extremely important because we only reduce alkalinity and do not induce oxidative stress.
- Parallel properties. In addition to its excellent acidification capacity, it has surface tension breaking, antifoaming, and dispersing properties, which maximize the contact area and facilitate transport, soil penetration, and foliage latency after application:
- Dispersion. By maximizing the contact area of fertilizer droplets on the plant surface, it increases the likelihood of nutrients being absorbed through the cuticle or stomatal pores.
- Adhesion. By increasing adhesion to the target surface, it helps exploit the biological potential of herbicides, growth regulators, and defoliants in particular. Under unfavorable environmental conditions or hard water, penetration is limited.
- Relationship with carbonates. Agrex®abc removes carbonates and bicarbonates, thereby enhancing the active ingredients of agrochemicals.
- Penetration. In addition to maximizing the contact area, especially on waxy leaves, it facilitates transport by providing a bridge between the water and the wax leaf. It contributes to increased penetration at the cuticular level: it softens the crystalline waxes in the cuticle and thus increases the mobility of agrochemicals through the cuticular membrane. On the other hand, surfactants increase cuticular penetration by increasing the solubility of the active ingredients, thus increasing the wet surface area.
- Humectant. By slowing down the evaporation rate of the aqueous phase of the solution after spraying, the contact time is increased, which also improves the transport of the active substance.
- Promotes mixture stability. Promotes the stability of formulations that are sensitive to basic pH.
- Antifoaming effect and others
- Does not interact with the components of other formulations. Does not destroy the surfactant properties of the formulation, making Agrex®abc the top of the range in acidification co-adjuvants. As it has no oxidizing capacity, it prevents the decomposition or loss of effect of components in other applications and increases shelf life.

METHOD OF APPLICATION:

For preparation and application, we suggest the following steps:

- Fill the container halfway with water.
  Add the necessary amount of **Agrex®abc** to condition the volume of water in question. The product dosage varies depending on the pH and salt concentration of the water to be used. As a guide to the appropriate amount of **Agrex®abc**, we suggest observing the color change of the solution and comparing it with the color chart on the label.
- Add the agrochemicals based on the instructions for the products to be handled.
- Fill the container to capacity and add the necessary amount of **Agrex®abc** to condition the entire solution.

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SPECIAL PRECAUTIONS:

Follow the recommendations for use of the product:
• Do not pour the product directly onto water bodies or areas where runoff occurs. • Dispose of empty containers and product residues in accordance with local regulations. • Follow good agricultural practices. • Do not dispose of empty product containers or packaging on the ground, in rivers, lakes, lagoons, or other bodies of water. • Do not pour leftover product or water used to wash application equipment onto soil, into rivers, lakes, ponds, or other bodies of water.

GENERAL RECOMMENDATIONS:

Agrex®abc is recommended for use in any water-agrochemical mixture requiring an acidic pH condition, which prevents the degradation of ingredients by alkaline hydrolysis and makes their activity more efficient.

COMPATIBILITY:

Agrex®abc is an acidifier, humectant, penetrant, and dispersant that allows for greater efficiency in the use of agrochemicals with which it is mixed. Therefore, it can be used in mixture with any agrochemical that needs to condition water for better activity in the plant.
It should be shaken before use and can be mixed with most neutral or acidic agrochemicals as it does not present compatibility problems.

PHYTOXICITY AND RESIDUES:

Agrex®abc is not phytotoxic under the recommended conditions of use.

Original pH	Dosage in ml per 100 L of water	Method of application	Application period
7.0 – 6.5 6.5 – 5.5	50 – 100 100 – 150	**Agrex®abc** can be applied by aerial or ground spraying	When you suspect alkaline water
Standard average dose 1 ml/L of water			

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