# Technical Data Sheet


## EKBER®

GENERAL INFORMATION

| | |
|---|---|
| **Category** | Inorganic Fertilizer |
| | Content % w/w |
| **Guarantee of Composition** | Phosphorus as P2O5_____41.043%<br>Potassium as P2K2_____29.688% |
| **Key feature** | eKber® is an inorganic fertilizer based on phosphite and potassium designed to increase plants' natural defense compounds, as well as their potassium intake. |
| **Manufacturer / Formulator / Distributor** | IQ Chemicals & Labs S.A. de C.V.<br>IQ Chem & Labs S.A. de C.V.<br>Agroenzymas México S.A. de C.V. |
| **Registration** | **RSCO-097/V/21** |

Torre Esmeralda Atizapán • Avenida Adolfo Ruiz Cortínez Mz1 lote 26, torre 2 planta baja interior 106,
Lomas de Atizapán 2ª sección, Atizapán de Zaragoza, Estado de México, México. C.P. 52977.
comunicación@retenum.com

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## MODE OF ACTION AND EFFICACY:

**eKber®** is a phosphite and potassium compound that is easily absorbed by plants. Once inside plant tissue, it can perform the following functions:

- **Elicitor effect.** Increases defense compounds. The application of **eKber®** increases the production of natural compounds that activate the plant's defense system against biotic factors (mainly fungal diseases).
- **Phyto-immunizing action.** The phosphite contained in **eKber®** is easily assimilated and moves within plant tissue, so its action is immediate, triggering an action like that of some materials that control certain pathogens of some fungal genera.

Increases the ionic balance of cells. The potassium provided by **eKber®** acts as a catalyst in respiration and carbohydrate metabolism, improving the concentration of sugars in fruits.

## METHOD OF APPLICATION:

**eKber®** is designed to be applied to crops in both ways, foliar and soil. It is completely soluble in water, and it is recommended to dilute it in the amount of water necessary to achieve total coverage of the crop.

To prepare it, it is recommended to fill the tank with 50% water, add **eKber®**, and then fill with the necessary amount of water. For soil applications, carry out compatibility tests beforehand according to the compounds being used in the nutrition program; under no circumstances should it be mixed with calcium or sulfates.

Once the solution has been prepared, it can be applied in the following ways, given its characteristics:

- Foliar. Foliar application of eKber® extracts has been shown to be effective in stimulating vegetative and reproductive growth and development. Depending on the crop, it is recommended to add a penetrant or adhesive to the spray solution to ensure adequate penetration of the eKber® compounds.
- Irrigation system. Through applications directed at the root system, the effects on vegetative development and the increase in stress tolerance compounds are noticeable when the solution comes into contact with the root system.

  Immersion of fruits or tubers. Applications on post-harvest fruits yield good results in controlling skin diseases.

The application should preferably be carried out when temperatures do not exceed 30°C and relative humidity is between 40-60%; do not apply when wind speeds exceed 15 km/h or when there is a chance of rain.

Although **eKber®** has high penetration into crop foliage, it is recommended that applications be made in conjunction with nonionic adjuvants to improve penetration.

## SPECIAL PRECAUTIONS:

Although **eKber®** is non-toxic, if overexposure to the product occurs, the following measures are recommended:

- Eye contact. Rinse eyes with plenty of water for at least 15 minutes.
- Skin contact. Wash the area of contact with plenty of soap and water.

Ingestion. In case of accidental ingestion, rinse mouth with water.

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## TABLE OF RECOMMENDATIONS AND DOSES

### GENERAL RECOMMENDATIONS:

**eKber®** can be applied to provide potassium to plants during stages of high demand for this element, such as vegetative development and fruit formation. Likewise, due to the presence of phosphorus in the form of phosphite ions, it acts as a stimulant for the plants' self-defense mechanisms against pathogenic fungi in the roots, collar, stems, fruits, etc.

To demonstrate the maximum effectiveness of **eKber®**, the following aspects can be considered:

- Application timing. It should be applied during periods of high demand for the element or prior to the onset of adverse biotic conditions to activate the plants' defenses.
- Application frequency. It is recommended to apply the product during important events and periodically if adverse conditions are present (every 7-15 days) while these conditions persist.

Mixing with other agrochemicals. **eKber®** is compatible with most products with current registration. Mixing with copper-based products is not recommended (if they have been applied previously, at least 7 days must pass before applying **eKber®**), as well as oils and sulfur.

### EFFECTS ON CROPS:

**eKber®** increases the potassium content in the organs that require it according to the phenological stage of the crop. Likewise, its phosphite ion increases the plants' defenses against adverse biotic factors, thereby generating healthy crops with harmonious growth.

### PHYTOTOXICITY:

In general, there are no known toxic effects when **eKber®** comes into contact with the skin, is ingested, or inhaled. It is a biodegradable product, so it leaves no residue that could harm plants or the environment.

### COMPATIBILITY:

**eKber®** is a liquid formulation that is fully compatible with neutral-action fertilizers and pesticides. It is compatible with most pesticides with current registration. Do not mix with mineral oils, sulfur, alkaline reaction products, or products containing copper (in the latter case, after applying a copper compound, wait at least 15 days before applying). If the origin of the material is unknown, it is recommended to perform a small stability test.

# Technical Data Sheet

Agroenzymas

| CROP | DOSAGE | | APPLICATION PERIOD |
|---|---|---|---|
| | FOLIAGE | SOIL | |
| **Tomatoes, chili peppers, tomatillos** | 0.5-1.0 L / ha | 1-3 L / ha | Apply after transplanting.<br>Then apply 4-6 times every 21-30 days in both ways.<br>For foliar applications, use a volume of 200-300 L of water/ha. |
| **Melons, watermelons, cucumbers** | 0.5-1.0 L / ha | 1-3 L / ha | Apply after transplanting.<br>Follow up with 4-6 applications every 15-20 days.<br>For foliar applications, use a volume of 200-300 L of water/ha. |
| **Potatoes** | 0.5-1.0 L / ha | | Apply during vegetative growth after planting.<br>Repeat during tuberization and 15 days later. |
| **Avocados and citrus fruits** | 300-400 ml / 100 L of water | 4-5 L / ha | 2–3 applications, sprouting, pre-flowering, and fruit filling |
| **Walnut trees** | 200-400 ml / 100 L of water | 4-5 L / ha | Apply monthly during sprouting, pre-flowering, and fruit filling. |
| **Blackberries and blueberries** | 0.5-1.0 L / ha | 4-5 L / ha | 2–3 applications, sprouting, pre-flowering, and fruit filling.<br>For foliar applications, use a volume of 200-400 L of water/ha. |
| **Strawberries** | 0.5-0.8 L / ha | 1-3 L / ha | 1a. After transplanting.<br>2a. 30 days later.<br>3a. When there are deficiencies and/or developmental deficits, or every 20 days.<br>For foliar applications, use a spray volume of 200-300 L/ha. |
| **Broccoli, Cabbage, Cauliflower, and Lettuce** | 0.5-1.0 L / ha | 1-3 L / ha | Apply after transplanting.<br>Follow up 4-6 applications every 21-30 days.<br>For foliar applications, use a volume of 200-300 L of water/ha. |
| **Asparagus** | 0.5-1.0 L / ha | 1-3 L / ha | Activate vegetative growth and repeat every 20 days. For foliar applications, use a water volume of no more than 400 L/ha. |
| **Onions** | 0.5-1.0 L / ha | 1-3 L / ha | Apply after transplanting.<br>Follow up 4-6 applications every 21-30 days.<br>For foliar applications, use a volume of 200-300 L of water/ha. |
| **Flowers** | 0.5-1.0 of water | 1-3 L / ha | Apply after transplanting.<br>Follow up with 4-6 applications every 21-30 days. |
| **Roses** | 0.5 L/200 of water | 1-3 L / ha | Apply at sprouting, then 4-5 applications every 21 days. |

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| **Bananas** | 200-300 ml /ha | 1-2 L/ha in 200 L of water | Apply every 15-20 days depending on the need to activate the plant's defenses.<br>For soil applications, pour 100 ml in front of the succession sprout. |
| **Pineapples** | 2 L / ha en 3000L de agua | 2 L/ha in 2000 L of water | Apply during vegetative growth every 30 days after transplanting<br>Applications after flower induction<br>Soil application: apply 40-50 ml per plant to the basal leaves so that the solution reaches the base. Application with moisture is recommended. |
| **Papayas** | 300-400 ml/100 L of water | 4-5 L / ha | Apply every 15-20 days depending on the need to activate the plant's defenses. For foliar applications, use a volume of 400 L of water. |