



- **Boron Ethanolamine** is a liquid fertilizer that is quickly absorbed and assimilated by the crop. Its application stimulates the growth of cambium tissues and apical meristem, promotes calcium mobility and assimilation
- Boron is non-mobile in plants. Boron deficiency will retard new growth and will cause brittle leaves in some crops.
- Sufficient boron improves the root uptake of P and K.
- Sufficient boron is required for pollen production and viability of pollens. Deficiency of Boron can cause incomplete pollination of corn.
- Grapes require adequate Boron to avoid impaired fertilization.

Cotton:

- Boron is one of the important micronutrients for cotton and is demanded in high amount. It is critical for boll development. Cotton is very susceptible to boron deficiency causing distorted flowers leading to shedding of flowers and bolls.
- Cotton needs Boron during all growth stages, especially during boll development. Boron helps cotton to develop fruiting sites, aids in pollination, boll retention and contributes to quality fibre. Unfortunately, boron is least available during this time, especially in non irrigated production.
- The foliar application should be made just before and during square development.

LiquiBor Specification:

- Boron (as B) % by weight, min. : 10.0
- pH: 8.5±1
- Specific Gravity: 1.3 -1.4

Reasons for Boron deficiency:

- Soils with low organic matter content.
- Dry soils with pH more than 6.5
- High potash in soil reduces the availability of boron.
- High light intensity and long day condition increase Boron deficiency.

Functions of Boron in plant nutrition:

Boron is an essential micronutrient required by all plants. Adequate B nutrition is critical for high yields and quality of crops. Deficiencies of B result in many anatomical, biochemical and physiological changes in plants.

- The main functions of boron relate to **Cell wall strength and development:** Boron is involved along with calcium (Ca) in the cell wall structure. Boron is involved in the movement of Ca into the plant and in normal Ca nutrition in plants.
- **Cell division:** Boron is essential in the actively growing regions of plants, such as root tips, and new leaf and bud development.
- **Fruit and seed development:** The B requirement is much higher for reproductive growth than for vegetative growth in most plant species. Boron increases flower production and retention, pollen tube elongation and germination, and seed and fruit development
- **Sugar transport:** Boron increases the rate of transport of sugars (which are produced by photosynthesis in

mature plant leaves) to actively growing regions and in developing fruits. Boron is essential for providing sugars which are needed for root growth in all plants and also for normal development of root nodules in legumes.

- **Hormone development:** Flower initiation, fruit development, cell wall and tissue formation, and root elongation are all influenced by hormones. Boron plays an important role in regulating hormone levels in plants
- **Phenolic acid biosynthesis.**

LiquiBor should be applied to crops whenever a boron deficiency is observed or expected. There should be sufficient foliage to absorb the spray. To optimize crop nutrient use it is recommended that, soil and tissue analysis should be used for guidance

Foliar Application:

Sr.No	Crop	Application Stage	Advisory Dose (ml/lit of water)
1	Grape	Stages as per EL chart: (EL 11): 4 leaves separated, (EL 17): 12 leaves separated, Single flower separated, (EL 23): 50% caps fall = Full bloom.	0.5
2	Pomegranate	Pre-flowering & Repeat at fruit set stage.	0.5
3	Banana	40-45 days & Repeat at 90-100 days and Before flowering stage.	1-1.5
4	Tomato/ Chilli	Pre-flowering stage & Repeat at fruit set and After every 2 pickings.	0.5 -1.0
5	Potato	30-35 days crop stage.	1.0
6	Cabbage / Cauliflower	Pre-head / curd formation stage & 25-35 days after planting.	1.0
7	Maize	Pre-flowering Stage.	1.0

SHAKE WELL BEFORE USE

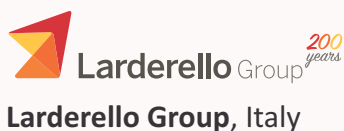
Direction for use: Continue agitation during spraying.

Tank mixing/co-application: Carry out "Jar test" before mixing LiquiBor with other products. Do not mix LiquiBor with other oil formulations. Co-application is entirely at the risk of the end-users.

Caution: Do not exceed the appropriate application rate. Do not spray under hot and bright days. Always Use PPE. Do not empty into drains and waterways. Dispose of empty container in a safe way.

Storage: Do not expose to direct sunlight or high temperature (above 30° C). Use the container fully, once opened. Keep away from food, drink, animal feedstuff and children

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