



# Optibor<sup>®</sup> for Agriculture



17.5% B



Grade for agriculture: Technical granular  
Boric acid

## Easy to handle boric acid

*Optibor*<sup>®</sup> TG is a stable, free-flowing, white, crystalline product that does not change chemically under normal storage conditions.

When it comes to boron supplementation, quality matters. Like all U.S. Borax refined boron products, *Optibor* TG is made from only high-quality sodium borates, with no intentionally added impurities, fillers, coatings, or added ingredients.

The product doesn't leave behind the sticky, difficult-to-clean residue that some other products do.

*Optibor* TG can be used in the following agriculture applications:

- Manufacture and production of liquid boron fertilizer for use in foliar application and fertigation.
- Production of boron-enriched compound fertilizers as an intermediate ingredient

This product is NOT recommended for direct soil application due to the high risk of boric acid leaching.

### Registrations

*Optibor* TG is registered for use as a micronutrient fertilizer in the states of California, Idaho, Oregon, and Washington.

### Solubility

100% water-soluble

### Handling

*Optibor* TG is easily handled by means of air or mechanical conveying.

### Storage

*Optibor* TG does not change chemically under normal storage conditions. Wide fluctuations in temperature and humidity can cause recrystallization at particle contact points, resulting in caking. Care should therefore be taken to avoid such fluctuations during product storage. Also, it is, of course, essential to maintain the integrity of the packaging.

### OMRI Listed

Suitable for organic farming





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## Boron, an essential plant nutrient

Boron is one of eight micronutrients essential to all plant growth. Its role was recognized first in the 1920s and since that time, boron deficiency has been recognized in a wide range of crops.

## Detecting boron deficiency

Different crops show different signs of boron deficiency. Generally, but the time symptoms are seen, yields will already have been adversely affected. The best way to establish boron need is either through soil testing or tissue analysis. In this way, boron supplementation can form part of a regular crop fertilization program.

## Predicting boron deficiency

Certain crops are known to be more susceptible to boron deficiency than others. Specific crop information can be found at [www.borax.com/ag](http://www.borax.com/ag).

There are several universal factors which need to be taken into account when boron deficiency is suspected:

- Heavy rainfall
- Sandy soils
- High organic matter
- Recent liming (pH over 6.6)
- Previous cropping
- Boron removal by previous crops
- No boron fertilization

## Correcting boron deficiency

Boron deficiency can be remedied by the correct application of a borate containing material in solid or liquid fertilizers, to the seedbed in annual crops or under the foliar canopy of perennial crops. Crops can

also be sprayed with boron containing solutions. These are normally tank mixed with other micronutrients or agrochemical products. Mixing with other sprays as part of a program not only saves on application cost, but allows for precise timing.

## About U.S. Borax

U.S. Borax, part of Rio Tinto, is a global leader in the supply and science of borates—naturally-occurring minerals containing boron and other elements. We are 1,000 people serving 650 customers with more than 1,800 delivery locations globally. We supply around 30% of the world's need for refined borates from our world-class mine in Boron, California, about 100 miles northeast of Los Angeles.

Our local agriculture experts understand the uses and benefits of boron on crops. In addition to a global sales team, we have a number of agronomists on staff to help fertilizer distributors maximize the benefits of borates in agriculture applications. Our ag team can answer individual growers' questions and concerns about their particular crop.

High quality, high reliability, high performance borate products. It's what we're known for.

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