

Chemiebor™ 11

▶ BACKGROUND

CHEMIEBOR™ 11 is the refined form of natural sodium borate.

CHEMIEBOR™ 11 is mainly composed of boric oxide (B_2O_3), sodium oxide and water. It is a mild, alkaline salt, white and crystalline, with excellent buffering and fluxing properties. When dissolved in water, it hydrolyzes to give a mildly alkaline solution, thus capable of neutralizing acidic soils.

The relatively neutral pH of **CHEMIEBOR™ 11** solutions makes it an excellent buffering agent. It is an important multifunctional source of B_2O_3 , particularly where the simultaneous presence of sodium is beneficial.

CHEMIEBOR™ 11 is used as a source of micronutrient B and can be blended with commonly used bulk / liquid fertilizers & micronutrient mixtures for Soil application or Foliar Spray.

▶ APPLICATION AND BENEFITS

CHEMIEBOR™ 11 is widely used for:

- ▶ Direct soil application for all types of crops.
- ▶ Manufacture of solid & liquid micronutrient mixtures & formulations.
- ▶ Coating and/or blending of compound or bulk fertilizers.

▶ GENERAL INFORMATION

Product Name	CHEMIEBOR™ 11
Chemical Name	Borax Decahydrate, Borax 10 Mol, Di Sodium Tetraborate Decahydrate
Chemical Formula	$Na_2B_4O_7 \cdot 10 H_2O$
CAS No	1303-96-4



► PHYSICAL PROPERTIES

Molecular Weight	381.35
Appearance	White, Odourless, Crystalline Solid
Bulk Density (Loose)	0.812 gms/cc
Particle Size	+1 mm. 0.8 % max. -0.060 mm. 4.0% max.

► CHEMICAL PROPERTIES

Boron Content (As B)	10.5% Min
Na ₂ O	16.25 % Typical
Matter Insoluble in Water	1.0% Max

► SOLUBILITY AND pH

Solubility in Water		pH@ 20°C	
At 20°C	4.7%	pH 0.1% solution	9.3
At 100°C	65.64%	pH 1.0% solution	9.2

► PACKAGING

25 Kg PP Bags with Inner Liner.

*All data above are determined by Raj Borax Private Ltd analytical methods.

NOTICE:

Before using these products, please read the Product Specifications, the Safety Data Sheets and any other applicable product literature. The descriptions of potential uses for these products are provided only by way of example. The products are not intended or recommended for any unlawful or prohibited use including, without limitation, any use that would constitute infringement of any applicable patents. Nor is it intended or recommended that the products be used for any described purposes without verification by the user of the products' safety and efficacy for such purposes, as well as ensuring compliance with all applicable laws, regulations and registration requirements. Suggestions for use of these products are based on data believed to be reliable. The seller shall have no liability resulting from misuse of the products and provides no guarantee, whether expressed or implied, as to the results obtained if the products are not used in accordance with directions or safe practices. The buyer assumes all responsibility, including any injury or damage, resulting from misuse of the product, whether used alone or in combination with other materials. THE SELLER MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE SELLER SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL DAMAGES.



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