



► BACKGROUND

CHEMIEBOR™ 36 is a refined sodium borate. The main composition of **CHEMIEBOR™ 36** is Boric Oxide (B_2O_3), Sodium Oxide (as Na_2O) 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 mildly alkaline solution.

The relatively neutral pH of **CHEMIEBOR™ 36** 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.

► APPLICATION AND BENEFITS

CHEMIEBOR™ 36 has many industrial applications, out of which the most common are in soaps and detergents as a pH buffering agent & as an additive in formulations for cleaning hard surfaces.

CHEMIEBOR™ 36 is used as a fluxing agent in metallurgy and its ability to dissolve metal oxides is exploited in the recovery of metals such as brass, copper, lead and zinc from scrap or smelting slag.

Borates are derived from naturally occurring minerals & have very low mammalian toxicity. A combination of **CHEMIEBOR™ 36** with Boric Acid forms an effective wood preservative.

CHEMIEBOR™ 36 forms a part of the starch adhesive formulation for corrugated boxes, for neutralizing the residual acid from the pickling stage in wire drawing process.

► GENERAL INFORMATION

Product Name	CHEMIEBOR™ 36
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 ₂ O ₃)	36.4% Typical
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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