

# Chemiebor™ 67



## » BORON COMPOUNDS AS WOOD PRESERVATIVES

It is well known that boron compounds are essential for plant growth and for a healthy human diet. Boron compounds are also among the most effective wood preservative agents. Throughout the world borates have been remarkably effective in protecting wood products used in interior construction from termites, wood boring beetles, carpenter ants and decay fungi. Borates are also used to protect living forests as well as sawn timber, from attack of timber destroying organisms like wood borere & beetles, termites and decay fungi. The high solubility of borates allows diffusing throughout the wood's cellular network and provides integral protection.

## » CHEMIEBOR™ 67

**CHEMIEBOR™ 67** is a high performance wood preservative having very high boron concentration at maximum possible solubility and rate of dissolution in water.

**CHEMIEBOR™ 67**, based on Di Sodium Octaborate is particularly suitable for applications like treatment of timber sections of non durable species for furniture, window/door joinery, rafters, studding, cladding and for treatment of composite board materials (e.g. plywood, glulam, particle board)

**CHEMIEBOR™ 67** is ideal for treatment of both soft as well as hardwood which are classified under the nondurable species and even sapwood portion of the durable hardwoods.

However, Borates can mobilize out when wood becomes wet and hence are classified under the water-soluble (leachable) class of wood preservatives. But it must be understood that this loss of boron wood preservative can only take place to a serious degree when treated wood remains thoroughly wetted for long periods and is in prolonged continuous contact with running water or moist medium into which borates can diffuse.

Wood treated with **CHEMIEBOR™ 67** is therefore generally considered not suitable for ground contact applications of wood in totally out door applications in direct contact with ground and/or exposed to severe leaching conditions (e.g. cooling tower timber, garden furniture, bridge timber, transmission poles etc.) and should be protected with a water repellent coating when used for partially exterior applications in building construction like door/window frames etc.

## » APPLICATION AND BENEFITS

**CHEMIEBOR™ 67** is flexible with regard to application methods. It can be applied as a simple solution by brush, spray, dipping/immersion. **CHEMIEBOR™ 67** can also be applied by vacuum pressure process to dry or green timber. Wood treated with **CHEMIEBOR™ 67** does not affect its color and appearance and the treated wood retains keeps its original natural appearance and strength.

## » GENERAL INFORMATION

Product Name	CHEMIEBOR™ 67
Chemical Name	Di Sodium Octaborate Tetrahydrate
Chemical Formula	$\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$
CAS No	12280-03-4

## » PHYSICAL PROPERTIES

Molecular Weight	412.52
Appearance	Fine, White Odourless, Non-Crystalline Powder
Bulk Density (Loose)	320-480 Kg/m <sup>3</sup>
Particle Size	150 Mesh (BSS), 80% Min

## » CHEMICAL PROPERTIES

Boron Content (As B <sub>2</sub> O <sub>3</sub> )	67.50% Typical
Matter Insoluble in Water	1.0% Max

## » SOLUBILITY AND pH

Solubility in Water		pH@ 20°C	
At 20°C	9.7%	pH 3.0% solution	8.3
At 50°C	34.3%	pH 10% solution	7.6

## » PACKAGING

25 Kg PP Bags with Inner Liner.

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

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