



AQUABOR® MSR

Disodium Octoborate Tetrahydrate (DOT)
Na₂B₈O₁₃.4H₂O
Soluble Boron: 21%
CAS N° 12280-03-4
NCM N° 2840.20.00



+ Characteristics

Molecular weight	412.52
Purity as B element	21.0 % min.
Na ₂ B ₈ O ₁₃ .4H ₂ O	99.5 % min.

... Chemical and Physical Properties

B ₂ O ₃	67.5%min.
Na ₂ O	15.0% min.
H ₂ O	17.5% max.

pH

pH = 8.5 (5% by weight in solution at 22°C)
pH = 7.3 (10% by weight in solution at 22°C)

Bulk Density

0.60 ton/m³

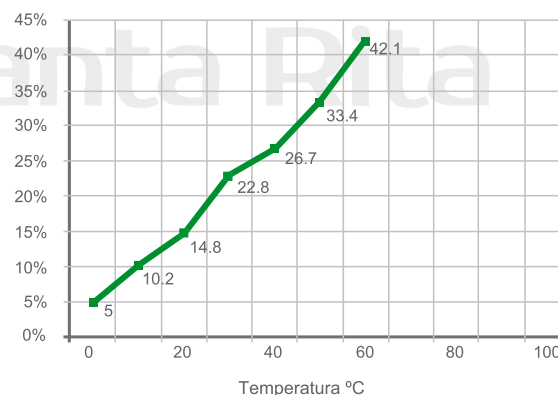
Sieve Specification

Mesh size ASTM N° 80 = 2% retained

Aquabor® MSR is a multipurpose product with general applications in both industrial and consumer products. It is a mild alkaline salt composed of a fine white powder that dissolves easily in water. Aquabor® dissolves even in cold water, with the maximum possible dispersion and solubility rate to obtain super saturated solutions with high concentrations of boron. In addition to its already established use as a spray on farms, it can be used in various ways in agro-industrial markets. Minera Santa Rita S.R.L. produces Aquabor® in a modern spray-drying plant constructed entirely of 316L stainless steel, which guarantees high purity without contamination.

Solubility in Water

The small particle of Aquabor® is inherently soluble, even at low temperatures. Its rapid solubility occurs even under the most demanding conditions.



% by weight of saturated solution

+ Packaging

Aquabor® is available in 25kg polypropylene bags and in 680,40kg bulk bags.



+ Applications and Benefits

Fertilizer

When used as a fertilizer, this product also acts as a plant growth regulator. The ideal application method for correcting boron deficiencies is foliar. It is also used as a coating of solid fertilizers, in high performance liquid formulations containing boron and combined with other nutrients (such as NPK) for spraying, fertigation or irrigation.

Correcting Boron Deficiency

In solid or liquid fertilizers, Aquabor® MSR is applied to the seedbed in annual crops or under the foliar canopy of perennial crops. Annual or perennial crops can also be sprayed with boron-containing solutions. These solutions are generally tank mixed with other micronutrients or agrochemicals.

Solvent

This product is added to soluble powder formulations for on-farm spraying. The amorphous particles of Aquabor® facilitate rapid incorporation into water while helping to move viscous liquids even at low temperatures.

Defoliant

It is used to detach the leaves of broad-leaved plants. For this purpose, it is commonly used in the cotton industry.

Rapid dispersion

The small particles of this product facilitate rapid dispersion and incorporation of viscous liquids even at low temperatures.

Wood Protection

This flame-retardant product is used to prevent wood decay caused by microbial attack.

Industrial use

It is used in insulation, as a flame retardant and as a corrosion inhibitor.

Detergents and Surfactants

Aquabor® is added to compounds that have detergent or surfactant properties.

pH Adjustment

Aquabor® is used to alter the acidity (pH) of a solution or a product.

Minimal Crystallization Effect

Aquabor® causes minimal changes to the temperatures of crystallization and to the density of the formulation.