



**PRODUCT INFO  
& DATASHEET**

# SICALNIT-BOR EXCEL-HG horticultural grade, Calcium Nitrate + Boron, 15.1% N + 27% CaO + 0.2% B - Made in E.U. -

6/2019

## 1. INTRODUCTION

SICALNIT-BOR EXCEL-HG Calcium Nitrate + Boron Horticultural Grade is fully soluble in water. It has a low concentration of impurities as well as a very low ammonium (N-NH<sub>4</sub>) concentration. We can offer both soluble and liquid Calcium Nitrates. (see SICALNIT-L and SICALNIT-L PLUS and SICALNIT-L 8.7N) For a complete overview of our Calcium products, please visit our website [www.sico.be](http://www.sico.be) or ask our literature. SICALNIT-BOR EXCEL-HG is a derivate of Calcium Nitrate and Boron fertiliser which dissolves rapidly and completely. SICALNIT-BOR EXCEL-HG is recommended as of early spring until fruit setting, especially as a bud development prior to flowering. SICALNIT-BOR EXCEL-HG has a high level of Calcium and Boron to improve the strength of cell walls and cell division. The presence of Nitrogen has a positive effect on the uptake of Calcium in the plant.

## 2. PRODUCT SPECIFICATIONS

### a) Description

Brand name : SICALNIT-BOR EXCEL-HG Calcium Nitrate + Boron Horticultural Grade  
 Chemical name : mixture of calcium ammonium nitrate and boric acid  
 Chemical formula : CaNH<sub>4</sub>(NO<sub>3</sub>)+H<sub>3</sub>BO<sub>3</sub>

### b) Chemical composition & analysis %

	(w/w)	Heavy metals
Total N	: 15.1% +/- 0.3%	Arsenic (As): < 1 mg/kg
Nitrate-N (N-NO <sub>3</sub> )	: 14.3% +/- 0.3%	Cadmium (Cd): < 1 mg/kg
Ammoniacal-N (N-NH <sub>4</sub> )	: 0.8% +/- 0.1%	Chrome (Cr): < 1 mg/kg
Calcium Oxide (CaO)	: 27% +/- 0.3%	Lead (Pb): < 1 mg/kg
Boron (B)	: 0.2% +/- 0.02%	Mercury (Hg): < 0.01 mg/kg

### c) Physical properties

Appearance : whitish flakes  
 Solubility : 2000 g/L  
 Density : 0.95 +/- 0.05 g/cm<sup>3</sup>  
 pH : 6 +/- 0.5 (in 1% solution) / 6 +/- 1 (in 10% solution)  
 Insolubles : <0.01%

## 3. PRODUCT CHARACTERISTICS & ADVANTAGES

- low on sodium and chloride
- low on heavy metals
- whitish flakes, not sensitive to caking if stored properly
- improves fruit quality, stunted growth and shelf-life
- easy to handle, dissolve and apply
- developed for foliar application. Also suitable for fertigation in open field and greenhouses.
- soft for leaf tissue

## 4. RECOMMENDED APPLICATIONS & DOSING INSTRUCTIONS

### a) FOLIAR

Crop	Application date	Dosage /ha/application		Conc. % (w/v)
		Min. kg	Max. kg	
Arable crops	2 - 3 applications : - 10-14 days interval - as of vegetative growth	2	4	0.3 - 0.5
Banana	1 - 2 applications : - as of fruit setting - during vegetative growth	3	12	0.3 - 1.0

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Citrus	1 - 2 applications : - as of fruit setting - during vegetative growth	3	12	0.3 – 1.0
Grapes & Olives	3 - 5 applications : - as of fruit setting - during vegetative growth	4	10	0.6 - 0.8

In case of foliar feeding as part of a mix with crop protection products, a compatibility test has to be done prior to preparing the spray-mix.

**b) FERTIGATION**

Crop	Application date	Conc. % (w/v)
Banana	- during vegetative growth - during fruit filling	0.03 - 0.15
Citrus	- during vegetative growth - during fruit filling	0.03 - 0.15
Grapes	- during vegetative growth - during fruit filling	0.10 - 0.20
Olive	- during vegetative growth - during fruit filling	0.10 - 0.20
Pip fruit	- during vegetative growth - during fruit filling	0.03 - 0.15

The mentioned indicated dosages and application stages are subject to soil and climatic conditions, influence of previous crops and other specific conditions. Exact dosages and application stages can only be given after an objective diagnostic procedure by e.g. soil, substrate and/or plant analyses.

**5. COMPATIBILITY**

SICALNIT-BOR EXCEL-HG Calcium Nitrate + Boron Horticultural grade is **compatible with most commonly used fertilizers, except sulphate or phosphate fertilisers**. Therefore the usage of a separate tank is needed or fertilizers should be applied on different times.

It is compatible with pesticides, though it is advisable to confirm compatibility of your intended spray-mix by preparing a sample of the spray materials at their recommended concentrations in order to rule out the possibility of a detrimental cross reaction. This mixture should be sprayed onto small area prior to commercial treatment, in order to assess whether an adverse effect occurs.

**6. PACKINGS**

- In 25 kg white plastic bags with label on pallets, 24 MT/20ft fcl.
- In 1000 kg big bags with label, 20 MT/20ft fcl.