PRODUCT INFO & DATASHEET

SICOGREEN®-S BORON

Sico's new highly concentrated foliar fertiliser NPK 11-13.7-0 + 9.6 B + CTE (w/v) to overcome boron deficiency in a quick and safe way

1. PRODUCT DESCRIPTION

* **SICOGREEN-S® BORON** is a new suspension for foliar fertilisation that guarantees an extremely efficient uptake of boron into the leaf and blossom tissue.

* **SICOGREEN-S® BORON** is more than just a boron-fertiliser: it has a stimulating effect upon plants under physiological stress in their early growth and is well compatible with pesticides. **Result: more yield, more quality!**

* **SICOGREEN-S® BORON** buffers the pH-value of the spray solution down to a level, which is physiologically well acceptable to plants.

* **SICOGREEN-S® BORON** is especially recommended for fruit crops, viticulture, vegetables and arable crops in which a deficiency of boron very often occurs together with "hidden" deficiencies of further micronutrients.

* **SICOGREEN-S® BORON** reduces russeting in sensitive varieties of pome fruit and at the same time supports the cell division rate by its high P- and N- content. **Result: optimum fruit growth!**

* **SICOGREEN-S® BORON** includes special additives that guarantee good rainfastness and excellent adhesiveness even under contrary climatic conditions.

2. NUTRIENT CONTENTS

NP fertiliser suspension with micronutrients. For foliar fertilisation.

Micronutrients		**% w/w**		**g/l (w/v)**
N	(total nitrogen)	8	%	110
N ammoniacal		5.5	%	
N carbamide		2.5	%	
P2O5	(phosphate)	10	%	137
B	(boron)	7.0	%	95.9
Cu*	(copper)	0.05	%	0.69
Fe*	(iron)	0.1	%	1.37
Mn*	(manganese)	0.05	%	0.69
Mo	(molybdenum)	0.001	%	0.014
Zn*	(zinc)	0.05	%	0.69

*The cationic micronutrients (iron, copper, manganese and zinc) are fully chelated EDTA.

3. PHYSICOCHEMICAL PROPERTIES

Colour:	green
Density:	1.37 g/cm3
pH-value:	approx. 6.8

4. BIOLOGICAL/TECHNICAL PROPERTIES & ADVANTAGES

* highly efficient and easy to handle
* significantly higher boron efficiency due to the penetrant effect of nitrogen and phosphorus
* excellent buffering of the spray solution (pH 6.5) thus well compatible with pesticides
* may partly substitute oil
* improves resistance to drought stress of young agricultural crop plants (eg. 6-10 leaf stage)
* guarantees phosphate supply via the leaf under unfavorable conditions such as cold spring, drought periods etc.

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5. FIELDS OF APPLICATION AND USAGE RATES

Crop	Timing	Rates of use (l/ha)
Sugarbeet	**Against heart and dry rot, for higher sugar yield** 2 applications : • 4 – 6 leaf stage • shortly before crop cover	2 – 5 l/ha
Oilseed rape	**Unsatisfactory pod and seed setting, for higher oil yield** 2 applications : • extension growth • budding until start of flowering	2 – 5 l/ha
Maize	**Additional corn yield, better quality** 1 - 2 applications : • early growth, 4 – 5 leaf stage • start of stem elongation; 7 – 9 leaf stage	2 – 3 l/ha
Pome fruit	**Blossom quality and softer skin** 3 applications : • flowering • cell division phase • post-harvest	1 - 2 l/ha
Stone fruit	**Fruit setting, blossom strengthening** 2 applications : • start of full-blossom • post-harvest	2 – 3 l/ha
Viticulture	**Blossom drop (coulure)** 2 applications : • before blossom • end of flowering	2 – 3 l/ha
Field vegetables (esp. cabbage; carrots, celery, beans, peas, radish, lettuce)	**High quality and benefit** 2 - 3 applications : • generally 2 – 3 weeks after planting, resp emergence, repeat in 8 – 10- day intervals • cabbage: 4 – 6 leaf stage, start of head formation	2 – 3 l/ha
Olive	**High quality and yield increase** 1 - 2 applications : • 2 – 4 weeks before flowering	2 – 3 l/ha
Sunflower	**Yield increase** 1 - 2 applications : • before flowering	1 - 2 l/ha
Citrus	**High quality and yield increase** 1 application : • before flowering	0.1 – 0.2 l/ha
Cotton	**Less boll shedding and higher yield** 3 applications : • first square • first flowering • at boll formation	3 - 5 l/ha

6. PACKAGING

10 l / 25 l / 100 l

7. PRECAUTIONS AND LIABILITY

When storing **SICOGREEN-S® BORON,** temperatures below -5°C (23°F) and above +40°C (104 °F) as well as frequent temperature fluctuations should be avoided. Considerable changes in temperature and/or too low temperatures can cause crystallisation. The crystals will however easily dissolve again in the spray solution. Prolonged storage may also cause colour change and a reversible phase separation. Neither crystallisation nor colour change will in any way affect the product quality as regards the desired physiological effect.

When mixing with pesticides for the first time, test on a small scale before general use.

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